SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.
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<120> CELL CYCLE AND PROLIFERATION PROTEINS

<130> PF-0722 PCT

<140> To Be Assigned
<141> Herewith

<150> 60/145,075; 60/153,129; 60/164,647
<151> 1999-07-21; 1999-09-08; 1999-11-10

<160> 108
<170> PERL Program

<210> 1
<211> 145
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 116462CD1

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Met	Asn	Gly	Arg	Val	Asp	Tyr	Leu	Val	Thr	Glu	Glu	Glu	Ile	Asn	
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Leu	Thr	Arg	Gly	Pro	Ser	Gly	Leu	Gly	Phe	Asn	Ile	Val	Gly	Gly	
				20					25						30
Thr	Asp	Gln	Gln	Tyr	Val	Ser	Asn	Asp	Ser	Gly	Ile	Tyr	Val	Ser	
				35					40						45
Arg	Ile	Lys	Glu	Asn	Gly	Ala	Ala	Ala	Leu	Asp	Gly	Arg	Leu	Gln	
				50					55						60
Glu	Gly	Asp	Lys	Ile	Leu	Ser	Val	Asn	Gly	Gln	Asp	Leu	Lys	Asn	
				65					70						75
Leu	Leu	His	Gln	Asp	Ala	Val	Asp	Leu	Phe	Arg	Asn	Ala	Gly	Tyr	
				80					85						90
Ala	Val	Ser	Leu	Arg	Val	Gln	His	Arg	Leu	Gln	Val	Gln	Asn	Gly	
				95					100						105
Pro	Ile	Gly	His	Arg	Gly	Glu	Gly	Asp	Pro	Ser	Gly	Ile	Pro	Ile	
				110					115						120
Phe	Met	Val	Leu	Val	Pro	Val	Phe	Ala	Leu	Thr	Met	Val	Ala	Ala	
				125					130						135
Trp	Ala	Phe	Met	Arg	Tyr	Arg	Gln	Gln	Leu						
				140					145						

<210> 2
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<213> Homo sapiens

<220>
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<223> Incyte ID No: 1210462CD1

<400> 2

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Met Leu Thr Gln Leu Lys Ala Lys Ser Glu Gly Lys Leu Ala Lys
  1               5                  10                  15
Gln Ile Cys Lys Val Val Leu Asp His Phe Glu Lys Gln Tyr Ser
             20                  25                  30
Lys Glu Leu Gly Asp Ala Trp Asn Thr Val Arg Glu Ile Leu Thr
             35                  40                  45
Ser Pro Ser Cys Trp Gln Tyr Ala Val Leu Leu Asn Arg Phe Asn
             50                  55                  60
Tyr Pro Phe Glu Leu Glu Lys Asp Leu His Leu Lys Gly Tyr His
             65                  70                  75
Thr Leu Ser Gln Gly Ser Leu Pro Asn Tyr Pro Lys Ser Val Lys
             80                  85                  90
Cys Tyr Leu Ser Arg Thr Pro Gly Arg Ile Pro Ser Glu Arg His
             95                 100                 105
Gln Ile Gly Asn Leu Lys Lys Tyr Tyr Leu Leu Asn Ala Ala Ser
            110                 115                 120
Leu Leu Pro Val Leu Ala Leu Glu Leu Arg Asp Gly Glu Lys Val
            125                 130                 135
Leu Asp Leu Cys Ala Ala Pro Gly Gly Lys Ser Ile Ala Leu Leu
            140                 145                 150
Gln Cys Ala Cys Pro Gly Tyr Leu His Cys Asn Glu Tyr Asp Ser
            155                 160                 165
Leu Arg Leu Arg Trp Leu Arg Gln Thr Leu Glu Ser Phe Ile Pro
            170                 175                 180
Gln Pro Leu Ile Asn Val Ile Lys Val Ser Glu Leu Asp Gly Arg
            185                 190                 195
Lys Met Gly Asp Ala Gln Pro Glu Met Phe Asp Lys Val Leu Val
            200                 205                 210
Asp Ala Pro Cys Ser Asn Asp Arg Ser Trp Leu Phe Ser Ser Asp
            215                 220                 225
Ser Gln Lys Ala Ser Cys Arg Ile Ser Gln Arg Arg Asn Leu Pro
            230                 235                 240
Leu Leu Gln Ile Glu Leu Leu Arg Ser Ala Ile Lys Ala Leu Arg
            245                 250                 255
Pro Gly Gly Ile Leu Val Tyr Ser Thr Cys Thr Leu Ser Lys Ala
            260                 265                 270
Glu Asn Gln Asp Val Ile Ser Glu Ile Leu Asn Ser His Gly Asn
            275                 280                 285
Ile Met Pro Met Asp Ile Lys Gly Ile Ala Arg Thr Cys Ser His
            290                 295                 300
Asp Phe Thr Phe Ala Pro Thr Gly Gln Glu Cys Gly Leu Leu Val
            305                 310                 315
Ile Pro Asp Lys Gly Lys Ala Trp Gly Pro Met Tyr Val Ala Lys
            320                 325                 330
Leu Lys Lys Ser Trp Ser Thr Gly Lys Trp
            335                 340
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<210> 3
<211> 418
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1305252CD1

<400> 3

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Met Leu Tyr Leu Glu Asp Tyr Leu Glu Met Ile Glu Gln Leu Pro
  1               5                  10                  15
Met Asp Leu Arg Asp Arg Phe Thr Glu Met Arg Glu Met Asp Leu
             20                  25                  30
Gln Val Gln Asn Ala Met Asp Gln Leu Glu Gln Arg Val Ser Glu
             35                  40                  45
Phe Phe Met Asn Ala Lys Lys Asn Lys Pro Glu Trp Arg Glu Glu
             50                  55                  60
Gln Met Ala Ser Ile Lys Lys Asp Tyr Tyr Lys Ala Leu Glu Asp
             65                  70                  75
Ala Asp Glu Lys Val Gln Leu Ala Asn Gln Ile Tyr Asp Leu Val
             80                  85                  90
Asp Arg His Leu Arg Lys Leu Asp Gln Glu Leu Ala Lys Phe Lys
             95                 100                 105
Met Glu Leu Glu Ala Asp Asn Ala Gly Ile Thr Glu Ile Leu Glu
            110                 115                 120
Arg Arg Ser Leu Glu Leu Asp Thr Pro Ser Gln Pro Val Asn Asn
            125                 130                 135
His His Ala His Ser His Thr Pro Val Glu Lys Arg Lys Tyr Asn
            140                 145                 150
Pro Thr Ser His His Thr Thr Thr Asp His Ile Pro Glu Lys Lys
            155                 160                 165
Phe Lys Ser Glu Ala Leu Leu Ser Thr Leu Thr Ser Asp Ala Ser
            170                 175                 180
Lys Glu Asn Thr Leu Gly Cys Arg Asn Asn Asn Ser Thr Ala Ser
            185                 190                 195
Ser Asn Asn Ala Tyr Asn Val Asn Ser Ser Gln Pro Leu Gly Ser
            200                 205                 210
Tyr Asn Ile Gly Ser Leu Ser Ser Gly Thr Gly Ala Gly Ala Ile
            215                 220                 225
Thr Met Ala Ala Ala Gln Ala Val Gln Ala Thr Ala Gln Met Lys
            230                 235                 240
Glu Gly Arg Arg Thr Ser Ser Leu Lys Ala Ser Tyr Glu Ala Phe
            245                 250                 255
Lys Asn Asn Asp Phe Gln Leu Gly Lys Glu Phe Ser Met Ala Arg
            260                 265                 270
Glu Thr Val Gly Tyr Ser Ser Ser Ser Ala Leu Met Thr Thr Leu
            275                 280                 285
Thr Gln Asn Ala Ser Ser Ser Ala Ala Asp Ser Arg Ser Gly Arg
            290                 295                 300
Lys Ser Lys Asn Asn Asn Lys Ser Ser Ser Gln Gln Ser Ser Ser
            305                 310                 315
Ser Ser Ser Ser Ser Ser Leu Ser Ser Cys Ser Ser Ser Ser Thr
            320                 325                 330
Val Val Gln Glu Ile Ser Gln Gln Thr Thr Val Val Pro Glu Ser
            335                 340                 345
Asp Ser Asn Ser Gln Val Asp Trp Thr Tyr Asp Pro Asn Glu Pro
            350                 355                 360
Arg Tyr Cys Ile Cys Asn Gln Val Ser Tyr Gly Glu Met Val Gly
            365                 370                 375
Cys Asp Asn Gln Asp Cys Pro Ile Glu Trp Phe His Tyr Gly Cys
            380                 385                 390
Val Gly Leu Thr Glu Ala Pro Lys Gly Lys Trp Tyr Cys Pro Gln
            395                 400                 405
Cys Thr Ala Ala Met Lys Arg Arg Gly Ser Arg His Lys
            410                 415
<210> 4
<211> 297
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1416289CD1

<400> 4
Met Ala Tyr Asn Val Ile Ile Ile Tyr Phe Asn Phe Arg Cys Leu
1 5 10 15
Glu Trp Leu Leu Asn Asn Leu Met Thr His Gln Asn Val Glu Leu
20 25 30
Phe Lys Glu Leu Ser Ile Asn Val Met Lys Gln Leu Ile Gly Ser
35 40 45
Ser Asn Leu Phe Val Met Gln Val Glu Met Asp Ile Tyr Thr Ala
50 55 60
Leu Lys Lys Trp Met Phe Leu Gln Leu Val Pro Ser Trp Asn Gly
65 70 75
Ser Leu Lys Gln Leu Leu Thr Glu Thr Asp Val Trp Phe Ser Lys
80 85 90
Gln Arg Lys Asp Phe Glu Gly Met Ala Phe Leu Glu Thr Glu Gln
95 100 105
Gly Lys Pro Phe Val Ser Val Phe Arg His Leu Arg Leu Gln Tyr
110 115 120
Ile Ile Ser Asp Leu Ala Ser Ala Arg Ile Ile Glu Gln Asp Ala
125 130 135
Val Val Pro Ser Glu Trp Leu Ser Ser Val Tyr Lys Gln Gln Trp
140 145 150
Phe Ala Met Leu Arg Ala Glu Gln Asp Ser Glu Val Gly Pro Gln
155 160 165
Glu Ile Asn Lys Glu Glu Leu Glu Gly Asn Ser Met Arg Cys Gly
170 175 180
Arg Lys Leu Ala Lys Asp Gly Glu Tyr Cys Trp Arg Trp Thr Gly
185 190 195
Phe Asn Phe Gly Phe Asp Leu Leu Val Thr Tyr Thr Asn Arg Tyr
200 205 210
Ile Ile Phe Lys Arg Asn Thr Leu Asn Gln Pro Cys Ser Gly Ser
215 220 225
Val Ser Leu Gln Pro Arg Arg Ser Ile Ala Phe Arg Leu Arg Leu
230 235 240
Ala Ser Phe Asp Ser Ser Gly Lys Leu Ile Cys Ser Arg Thr Thr
245 250 255
Gly Tyr Gln Ile Leu Thr Leu Glu Lys Asp Gln Glu Gln Val Val
260 265 270
Met Asn Leu Asp Ser Arg Leu Leu Ile Phe Pro Leu Tyr Ile Cys
275 280 285
Cys Asn Phe Leu Tyr Ile Ser Pro Glu Lys Lys Asn
290 295

<210> 5
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1558289CD1

<400> 5
Met Glu Ser Phe Ser Ser Lys Ser Leu Ala Leu Gln Ala Glu Lys
1 5 10 15
Lys Leu Leu Ser Lys Met Ala Gly Arg Ser Val Ala His Leu Phe
20 25 30
Ile Asp Glu Thr Ser Ser Glu Val Leu Asp Glu Leu Tyr Arg Val
35 40 45
Ser Lys Glu Tyr Thr His Ser Arg Pro Gln Ala Gln Arg Val Ile
50 55 60
Lys Asp Leu Ile Lys Val Ala Ile Lys Val Ala Val Leu His Arg
65 70 75

```
Asn Gly Ser Phe Gly Pro Ser Glu Leu Ala Leu Ala Thr Arg Phe
                 80                  85                  90
Arg Gln Lys Leu Arg Gln Gly Ala Met Thr Ala Leu Ser Phe Gly
                 95                 100                 105
Glu Val Asp Phe Thr Phe Glu Ala Ala Val Leu Ala Gly Leu Leu
                110                 115                 120
Thr Glu Cys Arg Asp Val Leu Leu Glu Leu Val Glu His His Leu
                125                 130                 135
Thr Pro Lys Ser His Gly Arg Ile Arg His Val Phe Asp His Phe
                140                 145                 150
Ser Asp Pro Gly Leu Leu Thr Ala Leu Tyr Gly Pro Asp Phe Thr
                155                 160                 165
Gln His Leu Gly Lys Ile Cys Asp Gly Leu Arg Lys Leu Leu Asp
                170                 175                 180
Glu Gly Lys Leu
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<210> 6
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1577739CD1

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<400> 6
Met Asp Val Arg Arg Val Leu Val Lys Ala Glu Met Glu Lys Phe
  1                 5                  10                  15
Leu Gln Asn Lys Glu Leu Phe Ser Ser Leu Lys Lys Gly Lys Ile
                 20                  25                  30
Cys Cys Cys Cys Arg Ala Lys Phe Pro Leu Phe Ser Trp Pro Pro
                 35                  40                  45
Ser Cys Leu Phe Cys Lys Arg Ala Val Cys Thr Ser Cys Ser Ile
                 50                  55                  60
Lys Met Lys Met Pro Ser Lys Lys Phe Gly His Ile Pro Val Tyr
                 65                  70                  75
Thr Leu Gly Phe Glu Ser Pro Gln Arg Val Ser Ala Ala Lys Thr
                 80                  85                  90
Ala Pro Ile Gln Arg Arg Asp Ile Phe Gln Ser Leu Gln Gly Pro
                 95                 100                 105
Gln Trp Gln Ser Val Glu Glu Ala Phe Pro His Ile Tyr Ser His
                110                 115                 120
Gly Cys Val Leu Lys Asp Val Cys Ser Glu Cys Thr Ser Phe Val
                125                 130                 135
Ala Asp Val Val Arg Ser Ser Arg Lys Ser Val Asp Val Leu Asn
                140                 145                 150
Thr Thr Pro Arg Arg Ser Arg Gln Thr Gln Ser Leu Tyr Ile Pro
                155                 160                 165
Asn Thr Arg Thr Leu Asp Phe Lys
                170
```

<210> 7
<211> 591
<212> PRT
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<220>
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<223> Incyte ID No: 1752768CD1

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<400> 7
Met Val Pro Val Ala Val Thr Ala Ala Val Ala Pro Val Leu Ser
  1                 5                  10                  15
Ile Asn Ser Asp Phe Ser Asp Leu Arg Glu Ile Lys Lys Gln Leu
```

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                  20                  25                  30
Leu Leu Ile Ala Gly Leu Thr Arg Glu Arg Gly Leu Leu His Ser
                  35                  40                  45
Ser Lys Trp Ser Ala Glu Leu Ala Phe Ser Leu Pro Ala Leu Pro
                  50                  55                  60
Leu Ala Glu Leu Gln Pro Pro Pro Pro Ile Thr Glu Glu Asp Ala
                  65                  70                  75
Gln Asp Met Asp Ala Tyr Thr Leu Ala Lys Ala Tyr Phe Asp Val
                  80                  85                  90
Lys Glu Tyr Asp Arg Ala Ala His Phe Leu His Gly Cys Asn Ser
                  95                 100                 105
Lys Lys Ala Tyr Phe Leu Tyr Met Tyr Ser Arg Tyr Leu Ser Gly
                 110                 115                 120
Glu Lys Lys Lys Asp Asp Glu Thr Val Asp Ser Leu Gly Pro Leu
                 125                 130                 135
Glu Lys Gly Gln Val Lys Asn Glu Ala Leu Arg Glu Leu Arg Val
                 140                 145                 150
Glu Leu Ser Lys Lys His Gln Ala Arg Glu Leu Asp Gly Phe Gly
                 155                 160                 165
Leu Tyr Leu Tyr Gly Val Val Leu Arg Lys Leu Asp Leu Val Lys
                 170                 175                 180
Glu Ala Ile Asp Val Phe Val Glu Ala Thr His Val Leu Pro Leu
                 185                 190                 195
His Trp Gly Ala Trp Leu Glu Leu Cys Asn Leu Ile Thr Asp Lys
                 200                 205                 210
Glu Met Leu Lys Phe Leu Ser Leu Pro Asp Thr Trp Met Lys Glu
                 215                 220                 225
Phe Phe Leu Ala His Ile Tyr Thr Glu Leu Gln Leu Ile Glu Glu
                 230                 235                 240
Ala Leu Gln Lys Tyr Gln Asn Leu Ile Asp Val Gly Phe Ser Lys
                 245                 250                 255
Ser Ser Tyr Ile Val Ser Gln Ile Ala Val Ala Tyr His Asn Ile
                 260                 265                 270
Arg Asp Ile Asp Lys Ala Leu Ser Ile Phe Asn Glu Leu Arg Lys
                 275                 280                 285
Gln Asp Pro Tyr Arg Ile Glu Asn Met Asp Thr Phe Ser Asn Leu
                 290                 295                 300
Leu Tyr Val Arg Ser Met Lys Ser Glu Leu Ser Tyr Leu Ala His
                 305                 310                 315
Asn Leu Cys Glu Ile Asp Lys Tyr Arg Val Glu Thr Cys Cys Val
                 320                 325                 330
Ile Gly Asn Tyr Tyr Ser Leu Arg Ser Gln His Glu Lys Ala Ala
                 335                 340                 345
Leu Tyr Phe Gln Arg Ala Leu Lys Leu Asn Pro Arg Tyr Leu Gly
                 350                 355                 360
Ala Trp Thr Leu Met Gly His Glu Tyr Met Glu Met Lys Asn Thr
                 365                 370                 375
Ser Ala Ala Ile Gln Ala Tyr Arg His Ala Ile Glu Val Asn Lys
                 380                 385                 390
Arg Asp Tyr Arg Ala Trp Tyr Gly Leu Gly Gln Thr Tyr Glu Ile
                 395                 400                 405
Leu Lys Met Pro Phe Tyr Cys Leu Tyr Tyr Cys Arg Arg Ala His
                 410                 415                 420
Gln Leu Arg Pro Asn Asp Ser Arg Met Leu Val Ala Leu Gly Glu
                 425                 430                 435
Cys Tyr Glu Lys Leu Asn Gln Leu Val Glu Ala Lys Lys Cys Tyr
                 440                 445                 450
Trp Arg Ala Tyr Ala Val Gly Asp Val Glu Lys Met Ala Leu Val
                 455                 460                 465
Lys Leu Ala Lys Leu His Glu Gln Leu Thr Glu Ser Glu Gln Ala
                 470                 475                 480
Ala Gln Cys Tyr Ile Lys Tyr Ile Gln Asp Ile Tyr Ser Cys Gly
                 485                 490                 495
```

```
Glu Ile Val Glu His Leu Glu Glu Ser Thr Ala Phe Arg Tyr Leu
                500                 505                 510
Ala Gln Tyr Tyr Phe Lys Cys Lys Leu Trp Asp Glu Ala Ser Thr
                515                 520                 525
Cys Ala Gln Lys Cys Cys Ala Phe Asn Asp Thr Arg Glu Glu Gly
                530                 535                 540
Lys Ala Leu Leu Arg Gln Ile Leu Gln Leu Arg Asn Gln Gly Glu
                545                 550                 555
Thr Pro Thr Thr Glu Val Pro Ala Pro Phe Phe Leu Pro Ala Ser
                560                 565                 570
Leu Ser Ala Asn Asn Thr Pro Thr Arg Arg Val Ser Pro Leu Asn
                575                 580                 585
Leu Ser Ser Val Thr Pro
                590
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<211> 463
<212> PRT
<213> Homo sapiens

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Met Pro Leu Leu Asn Trp Val Ala Leu Lys Pro Ser Gln Ile Thr
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Gly Thr Val Phe Thr Glu Leu Asn Asp Glu Lys Val Leu Gln Glu
                 20                  25                  30
Leu Asp Met Ser Asp Phe Glu Glu Gln Phe Lys Thr Lys Ser Gln
                 35                  40                  45
Gly Pro Ser Leu Asp Leu Ser Ala Leu Lys Ser Lys Ala Ala Gln
                 50                  55                  60
Lys Ala Pro Ser Lys Ala Thr Leu Ile Glu Ala Asn Arg Ala Lys
                 65                  70                  75
Asn Leu Ala Ile Thr Leu Arg Lys Gly Asn Leu Gly Ala Glu Arg
                 80                  85                  90
Ile Cys Gln Ala Ile Glu Ala Tyr Asp Leu Gln Ala Leu Gly Leu
                 95                 100                 105
Asp Phe Leu Glu Leu Leu Met Arg Phe Leu Pro Thr Glu Tyr Glu
                110                 115                 120
Arg Ser Leu Ile Thr Arg Phe Glu Arg Glu Gln Arg Pro Met Glu
                125                 130                 135
Glu Leu Ser Glu Glu Asp Arg Phe Met Leu Cys Phe Ser Arg Ile
                140                 145                 150
Pro Arg Leu Pro Glu Arg Met Thr Thr Leu Thr Phe Leu Gly Asn
                155                 160                 165
Phe Pro Asp Thr Ala Gln Leu Leu Met Pro Gln Leu Asn Ala Ile
                170                 175                 180
Ile Ala Ala Ser Met Ser Ile Lys Ser Ser Asp Lys Leu Arg Gln
                185                 190                 195
Ile Leu Glu Ile Val Leu Ala Phe Gly Asn Tyr Met Asn Ser Ser
                200                 205                 210
Lys Arg Gly Ala Ala Tyr Gly Phe Arg Leu Gln Ser Leu Asp Ala
                215                 220                 225
Leu Leu Glu Met Lys Ser Thr Asp Arg Lys Gln Thr Leu Leu His
                230                 235                 240
Tyr Leu Val Lys Val Ile Ala Glu Lys Tyr Pro Gln Leu Thr Gly
                245                 250                 255
Phe His Ser Asp Leu His Phe Leu Asp Lys Ala Gly Ser Val Ser
                260                 265                 270
Leu Asp Ser Val Leu Ala Asp Val Arg Ser Leu Gln Arg Gly Leu
                275                 280                 285
Glu Leu Thr Gln Arg Glu Phe Val Arg Gln Asp Asp Cys Met Val
```

```
                290                 295                 300
Leu Lys Glu Phe Leu Arg Ala Asn Ser Pro Thr Met Asp Lys Leu
                305                 310                 315
Leu Ala Asp Ser Lys Thr Ala Gln Glu Ala Phe Glu Ser Val Val
                320                 325                 330
Glu Tyr Phe Gly Glu Asn Pro Lys Thr Thr Ser Pro Gly Leu Phe
                335                 340                 345
Phe Ser Leu Phe Ser Arg Phe Ile Lys Ala Tyr Lys Lys Ala Glu
                350                 355                 360
Gln Glu Val Glu Gln Trp Lys Lys Glu Ala Ala Ala Gln Glu Ala
                365                 370                 375
Gly Ala Asp Thr Pro Gly Lys Gly Glu Pro Pro Ala Pro Lys Ser
                380                 385                 390
Pro Pro Lys Ala Arg Arg Pro Gln Met Asp Leu Ile Ser Glu Leu
                395                 400                 405
Lys Arg Arg Gln Gln Lys Glu Pro Leu Ile Tyr Glu Ser Asp Arg
                410                 415                 420
Asp Gly Ala Ile Glu Asp Ile Ile Thr Asp Leu Arg Asn Gln Pro
                425                 430                 435
Tyr Ile Arg Ala Asp Thr Gly Arg Arg Ser Ala Arg Arg Arg Pro
                440                 445                 450
Pro Gly Pro Pro Leu Gln Val Thr Ser Asp Leu Ser Leu
                455                 460
<210> 9
<211> 270
<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1988468CD1

<400> 9
Met Ala Asp His Met Met Ala Met Asn His Gly Arg Phe Pro Asp
  1               5                  10                  15
Gly Thr Asn Gly Leu His His His Pro Ala His Arg Met Gly Met
                20                  25                  30
Gly Gln Phe Pro Ser Pro His His His Gln Gln Gln Gln Pro Gln
                35                  40                  45
His Ala Phe Asn Ala Leu Met Gly Glu His Ile His Tyr Gly Ala
                50                  55                  60
Gly Asn Met Asn Ala Thr Ser Gly Ile Arg His Ala Met Gly Pro
                65                  70                  75
Gly Thr Val Asn Gly Gly His Pro Pro Ser Ala Leu Ala Pro Ala
                80                  85                  90
Ala Arg Phe Asn Asn Ser Gln Phe Met Gly Pro Pro Val Ala Ser
                95                 100                 105
Gln Gly Gly Ser Leu Pro Ala Ser Met Gln Leu Gln Lys Leu Asn
                110                115                 120
Asn Gln Tyr Phe Asn His His Pro Tyr Pro His Asn His Tyr Met
                125                130                 135
Pro Asp Leu His Pro Ala Ala Gly His Gln Met Asn Gly Thr Asn
                140                145                 150
Gln His Phe Arg Asp Cys Asn Pro Lys His Ser Gly Gly Ser Ser
                155                160                 165
Thr Pro Gly Gly Ser Gly Gly Ser Ser Thr Pro Gly Gly Ser Gly
                170                175                 180
Ser Ser Ser Gly Gly Gly Ala Gly Ser Ser Asn Ser Gly Gly Gly
                185                190                 195
Ser Gly Ser Gly Asn Met Pro Ala Ser Val Ala His Val Pro Ala
                200                205                 210
Ala Met Leu Pro Pro Asn Val Ile Asp Thr Asp Phe Ile Asp Glu
                215                220                 225
```

Glu Val Leu Met Ser Leu Val Ile Glu Met Gly Leu Asp Arg Ile
230 235 240
Lys Glu Leu Pro Glu Leu Trp Leu Gly Gln Asn Glu Phe Asp Phe
245 250 255
Met Thr Asp Phe Val Cys Lys Gln Gln Pro Ser Arg Val Ser Cys
260 265 270

<210> 10
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2049176CD1

<400> 10
Met Val Ser Trp Met Ile Ser Arg Ala Val Val Leu Val Phe Gly
1 5 10 15
Met Leu Tyr Pro Ala Tyr Tyr Ser Tyr Lys Ala Val Lys Thr Lys
20 25 30
Asn Val Lys Glu Tyr Val Arg Trp Met Met Tyr Trp Ile Val Phe
35 40 45
Ala Leu Tyr Thr Val Ile Glu Thr Val Ala Asp Gln Thr Val Ala
50 55 60
Trp Phe Pro Leu Tyr Tyr Glu Leu Lys Ile Ala Phe Val Ile Trp
65 70 75
Leu Leu Ser Pro Tyr Thr Lys Gly Ala Ser Leu Ile Tyr Arg Lys
80 85 90
Phe Leu His Pro Leu Leu Ser Ser Lys Glu Arg Glu Ile Asp Asp
95 100 105
Tyr Ile Val Gln Ala Lys Glu Arg Gly Tyr Glu Thr Met Val Asn
110 115 120
Phe Gly Arg Gln Gly Leu Asn Leu Ala Ala Thr Ala Ala Val Thr
125 130 135
Ala Ala Val Lys Ser Gln Gly Ala Ile Thr Glu Arg Leu Arg Ser
140 145 150
Phe Ser Met His Asp Leu Thr Thr Ile Gln Gly Asp Glu Pro Val
155 160 165
Gly Gln Arg Pro Tyr Gln Pro Leu Pro Glu Ala Lys Lys Lys Ser
170 175 180
Lys Pro Ala Pro Ser Glu Ser Ala Gly Tyr Gly Ile Pro Leu Lys
185 190 195
Asp Gly Asp Glu Lys Thr Asp Glu Glu Ala Glu Gly Pro Tyr Ser
200 205 210
Asp Asn Glu Met Leu Thr His Lys Gly Leu Arg Arg Ser Gln Ser
215 220 225
Met Lys Ser Val Lys Thr Thr Lys Gly Arg Lys Glu Val Arg Tyr
230 235 240
Gly Ser Leu Lys Tyr Lys Val Lys Lys Arg Pro Gln Val Tyr Phe
245 250 255

<210> 11
<211> 533
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2686765CD1

<400> 11
Met Ser Gly Thr Leu Glu Ser Leu Ala Asp Asp Val Ser Ser Met

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 1               5                  10                  15
Gly Ser Asp Ser Glu Ile Asn Gly Leu Ala Leu Arg Lys Thr Asp
            20                  25                  30
Lys Tyr Gly Phe Leu Gly Gly Ser Gln Tyr Ser Gly Ser Leu Glu
        35                  40                  45
Ser Ser Ile Pro Val Asp Val Ala Arg Gln Arg Glu Leu Lys Trp
    50                  55                  60
Leu Asp Met Phe Ser Asn Trp Asp Lys Trp Leu Ser Arg Arg Phe
65                  70                  75
Gln Lys Val Lys Leu Arg Cys Arg Lys Gly Ile Pro Ser Ser Leu
                80                  85                  90
Arg Ala Lys Ala Trp Gln Tyr Leu Ser Asn Ser Lys Glu Leu Leu
            95                  100                 105
Glu Gln Asn Pro Gly Lys Phe Glu Glu Leu Glu Arg Ala Pro Gly
        110                 115                 120
Asp Pro Lys Trp Leu Asp Val Ile Glu Lys Asp Leu His Arg Gln
    125                 130                 135
Phe Pro Phe His Glu Met Phe Ala Ala Arg Gly Gly His Gly Gln
140                 145                 150
Gln Asp Leu Tyr Arg Ile Leu Lys Ala Tyr Thr Ile Tyr Arg Pro
155                 160                 165
Asp Glu Gly Tyr Cys Gln Ala Gln Ala Pro Val Ala Ala Val Leu
                170                 175                 180
Leu Met His Met Pro Ala Glu Lys Pro Phe Gly Ala Trp Val Gln
            185                 190                 195
Ile Cys Asp Lys Tyr Leu Pro Gly Tyr Tyr Ser Ala Gly Leu Glu
        200                 205                 210
Ala Ile Gln Leu Asp Gly Glu Ile Phe Phe Ala Leu Leu Arg Arg
    215                 220                 225
Ala Ser Pro Leu Ala His Arg His Leu Gln Arg Gln Arg Ile Asp
230                 235                 240
Pro Val Leu Tyr Met Thr Glu Trp Phe Met Cys Ile Phe Ala Arg
245                 250                 255
Thr Leu Pro Trp Ala Ser Val Leu Arg Val Trp Asp Met Phe Phe
            260                 265                 270
Cys Glu Gly Val Lys Ile Ile Phe Arg Val Ala Leu Val Leu Leu
        275                 280                 285
Arg His Thr Leu Gly Ser Val Glu Lys Leu Arg Ser Cys Gln Gly
    290                 295                 300
Met Tyr Glu Thr Met Glu Gln Leu Arg Asn Leu Pro Gln Gln Cys
305                 310                 315
Met Gln Glu Asp Phe Leu Val His Glu Val Thr Asn Leu Pro Val
            320                 325                 330
Thr Glu Ala Leu Ile Glu Arg Glu Asn Ala Ala Gln Leu Lys Lys
        335                 340                 345
Trp Arg Glu Thr Arg Gly Glu Leu Gln Tyr Arg Pro Ser Arg Arg
    350                 355                 360
Leu His Gly Ser Arg Ala Ile His Glu Glu Arg Arg Arg Gln Gln
365                 370                 375
Pro Pro Leu Gly Pro Ser Ser Ser Leu Leu Ser Leu Pro Gly Leu
            380                 385                 390
Lys Ser Arg Gly Ser Arg Ala Ala Gly Gly Ala Pro Ser Pro Pro
        395                 400                 405
Pro Pro Val Arg Arg Ala Ser Ala Gly Pro Ala Pro Gly Pro Val
    410                 415                 420
Val Thr Ala Glu Gly Leu His Pro Ser Leu Pro Ser Pro Thr Gly
425                 430                 435
Asn Ser Thr Pro Leu Gly Ser Ser Lys Glu Thr Arg Lys Gln Glu
            440                 445                 450
Lys Glu Arg Gln Lys Gln Glu Lys Glu Arg Gln Lys Gln Glu Lys
        455                 460                 465
Glu Arg Glu Lys Glu Arg Gln Lys Gln Glu Lys Glu Arg Glu Lys
    470                 475                 480
```

```
Gln Glu Lys Glu Arg Glu Lys Gln Glu Lys Glu Arg Gln Lys Gln
                485                 490                 495
Glu Lys Lys Ala Gln Gly Arg Lys Leu Ser Leu Arg Arg Lys Ala
                500                 505                 510
Asp Gly Pro Pro Gly Pro His Asp Gly Gly Asp Arg Pro Ser Ala
                515                 520                 525
Glu Ala Arg Gln Asp Ala Tyr Phe
                530
<210> 12
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3215187CD1

<400> 12
Met Ala Phe Thr Phe Ala Ala Phe Cys Tyr Met Leu Ser Leu Val
  1                 5                  10                  15
Leu Cys Ala Ala Leu Ile Phe Phe Ala Ile Trp His Ile Ile Ala
                20                  25                  30
Phe Asp Glu Leu Arg Thr Asp Phe Lys Ser Pro Ile Asp Gln Cys
                35                  40                  45
Asn Pro Val His Ala Arg Glu Arg Leu Arg Asn Ile Glu Arg Ile
                50                  55                  60
Cys Phe Leu Leu Arg Lys Leu Val Leu Pro Glu Tyr Ser Ile His
                65                  70                  75
Ser Leu Phe Cys Ile Met Phe Leu Cys Ala Gln Glu Trp Leu Thr
                80                  85                  90
Leu Gly Leu Asn Val Pro Leu Leu Phe Tyr His Phe Trp Arg Tyr
                95                 100                 105
Phe His Cys Pro Ala Asp Ser Ser Glu Leu Ala Tyr Asp Pro Pro
               110                 115                 120
Val Val Met Asn Ala Asp Thr Leu Ser Tyr Cys Gln Lys Glu Ala
               125                 130                 135
Trp Cys Lys Leu Ala Phe Tyr Leu Leu Ser Phe Phe Tyr Tyr Leu
               140                 145                 150
Tyr Cys Met Ile Tyr Thr Leu Val Ser Ser
               155                 160
<210> 13
<211> 531
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3500375CD1

<400> 13
Met Ala Asp Val Leu Ser Val Leu Arg Gln Tyr Asn Ile Gln Lys
  1                 5                  10                  15
Lys Glu Ile Val Val Lys Gly Asp Glu Val Ile Phe Gly Glu Phe
                20                  25                  30
Ser Trp Pro Lys Asn Val Lys Thr Asn Tyr Val Val Trp Gly Thr
                35                  40                  45
Gly Lys Glu Gly Gln Pro Arg Glu Tyr Tyr Thr Leu Asp Ser Ile
                50                  55                  60
Leu Phe Leu Leu Asn Asn Val His Leu Ser His Pro Val Tyr Val
                65                  70                  75
Arg Arg Ala Ala Thr Glu Asn Ile Pro Val Val Arg Arg Pro Asp
                80                  85                  90
Arg Lys Asp Leu Leu Gly Tyr Leu Asn Gly Glu Ala Ser Thr Ser
```

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                95                  100                 105
Ala Ser Ile Asp Arg Ser Ala Pro Leu Glu Ile Gly Leu Gln Arg
            110                 115                 120
Ser Thr Gln Val Lys Arg Ala Ala Asp Glu Val Leu Ala Glu Ala
        125                 130                 135
Lys Lys Pro Arg Ile Glu Asp Glu Glu Cys Val Arg Leu Asp Lys
    140                 145                 150
Glu Arg Leu Ala Ala Arg Leu Glu Gly His Lys Glu Gly Ile Val
155                 160                 165
Gln Thr Glu Gln Ile Arg Ser Leu Ser Glu Ala Met Ser Val Glu
            170                 175                 180
Lys Ile Ala Ala Ile Lys Ala Lys Ile Met Ala Lys Lys Arg Ser
        185                 190                 195
Thr Ile Lys Thr Asp Leu Asp Asp Asp Ile Thr Ala Leu Lys Gln
    200                 205                 210
Arg Ser Phe Val Asp Ala Glu Val Asp Val Thr Arg Asp Ile Val
215                 220                 225
Ser Arg Glu Arg Val Trp Arg Thr Arg Thr Thr Ile Leu Gln Ser
            230                 235                 240
Thr Gly Lys Asn Phe Ser Lys Asn Ile Phe Ala Ile Leu Gln Ser
        245                 250                 255
Val Lys Ala Arg Glu Glu Gly Arg Ala Pro Glu Gln Arg Pro Ala
    260                 265                 270
Pro Asn Ala Ala Pro Val Asp Pro Thr Leu Arg Thr Lys Gln Pro
275                 280                 285
Ile Pro Ala Ala Tyr Asn Arg Tyr Asp Gln Glu Arg Phe Lys Gly
            290                 295                 300
Lys Glu Glu Thr Glu Gly Phe Lys Ile Asp Thr Met Gly Thr Tyr
        305                 310                 315
His Gly Met Thr Leu Lys Ser Val Thr Glu Gly Ala Ser Ala Arg
    320                 325                 330
Lys Thr Gln Thr Pro Ala Ala Gln Pro Val Pro Arg Pro Val Ser
335                 340                 345
Gln Ala Arg Pro Pro Pro Asn Gln Lys Lys Gly Ser Arg Thr Pro
            350                 355                 360
Ile Ile Ile Ile Pro Ala Ala Thr Thr Ser Leu Ile Thr Met Leu
        365                 370                 375
Asn Ala Lys Asp Leu Leu Gln Asp Leu Lys Phe Val Pro Ser Asp
    380                 385                 390
Glu Lys Lys Lys Gln Gly Cys Gln Arg Glu Asn Glu Thr Leu Ile
395                 400                 405
Gln Arg Arg Lys Asp Gln Met Gln Pro Gly Gly Thr Ala Ile Ser
            410                 415                 420
Val Thr Val Pro Tyr Arg Val Val Asp Gln Pro Leu Lys Leu Met
        425                 430                 435
Pro Gln Asp Trp Asp Arg Val Val Ala Val Phe Val Gln Gly Pro
    440                 445                 450
Ala Trp Gln Phe Lys Gly Trp Pro Trp Leu Leu Pro Asp Gly Ser
455                 460                 465
Pro Val Asp Ile Phe Ala Lys Ile Lys Ala Phe His Leu Lys Tyr
            470                 475                 480
Asp Glu Val Arg Leu Asp Pro Asn Val Gln Lys Trp Asp Val Thr
        485                 490                 495
Val Leu Glu Leu Ser Tyr His Lys Arg His Leu Asp Arg Pro Val
    500                 505                 510
Phe Leu Arg Phe Trp Glu Thr Leu Asp Arg Tyr Met Val Lys His
515                 520                 525
Lys Ser His Leu Arg Phe
            530
<210> 14
<211> 165
<212> PRT
<213> Homo sapiens
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<220>
<221> misc_feature
<223> Incyte ID No: 5080410CD1

<400> 14
Met Ala Ser Met Arg Glu Ser Asp Thr Gly Leu Trp Leu His Asn
1 5 10 15
Lys Leu Gly Ala Thr Asp Glu Leu Trp Ala Pro Pro Ser Ile Ala
20 25 30
Ser Leu Leu Thr Ala Ala Val Ile Asp Asn Ile Arg Leu Cys Phe
35 40 45
His Gly Leu Ser Ser Ala Val Lys Leu Lys Leu Leu Leu Gly Thr
50 55 60
Leu His Leu Pro Arg Arg Thr Val Asp Glu His Pro Ile Leu Pro
65 70 75
Met Lys Gly Ala Leu Met Glu Ile Ile Gln Leu Ala Ser Leu Asp
80 85 90
Ser Asp Pro Trp Val Leu Met Val Ala Asp Ile Leu Lys Ser Phe
95 100 105
Pro Asp Thr Gly Ser Leu Asn Leu Glu Leu Glu Glu Gln Asn Pro
110 115 120
Asn Val Gln Asp Ile Leu Gly Glu Leu Arg Glu Lys Val Gly Glu
125 130 135
Cys Glu Ala Ser Ala Met Leu Pro Leu Glu Cys Gln Tyr Leu Asn
140 145 150
Lys Asn Ala Ala Asp Asp Pro Arg Gly Thr Pro His Ser Pro Gly
155 160 165

<210> 15
<211> 199
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5218248CD1

<400> 15
Met Ser Asn Met Glu Lys His Leu Phe Asn Leu Lys Phe Ala Ala
1 5 10 15
Lys Glu Leu Ser Arg Ser Ala Lys Lys Cys Asp Lys Glu Glu Lys
20 25 30
Ala Glu Lys Ala Lys Ile Lys Lys Ala Ile Gln Lys Gly Asn Met
35 40 45
Glu Val Ala Arg Ile His Ala Glu Asn Ala Ile Arg Gln Lys Asn
50 55 60
Gln Ala Val Asn Phe Leu Arg Met Ser Ala Arg Val Asp Ala Val
65 70 75
Ala Ala Arg Val Gln Thr Ala Val Thr Met Gly Lys Val Thr Lys
80 85 90
Ser Met Ala Gly Val Val Lys Ser Met Asp Ala Thr Leu Lys Thr
95 100 105
Met Asn Leu Glu Lys Ile Ser Ala Leu Met Asp Lys Phe Glu His
110 115 120
Gln Phe Glu Thr Leu Asp Val Gln Thr Gln Gln Met Glu Asp Thr
125 130 135
Met Ser Ser Thr Thr Thr Leu Thr Thr Pro Gln Asn Gln Val Asp
140 145 150
Met Leu Leu Gln Glu Met Ala Asp Glu Ala Gly Leu Asp Leu Asn
155 160 165
Met Glu Leu Pro Gln Gly Gln Thr Gly Ser Val Gly Thr Ser Val
170 175 180
Ala Ser Ala Glu Gln Asp Glu Leu Ser Gln Arg Leu Ala Arg Leu

```
                185                 190                 195
Arg Asp Gln Val

<210> 16
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 058336CD1

<400> 16
Met Ala Phe Asn Asp Cys Phe Ser Leu Asn Tyr Pro Gly Asn Pro
  1               5                  10                  15
Cys Pro Gly Asp Leu Ile Glu Val Phe Arg Pro Gly Tyr Gln His
                20                  25                  30
Trp Ala Leu Tyr Leu Gly Asp Gly Tyr Val Ile Asn Ile Ala Pro
                35                  40                  45
Val Asp Gly Ile Pro Ala Ser Phe Thr Ser Ala Lys Ser Val Phe
                50                  55                  60
Ser Ser Lys Ala Leu Val Lys Met Gln Leu Leu Lys Asp Val Val
                65                  70                  75
Gly Asn Asp Thr Tyr Arg Ile Asn Asn Lys Tyr Asp Glu Thr Tyr
                80                  85                  90
Pro Pro Leu Pro Val Glu Glu Ile Ile Lys Arg Ser Glu Phe Val
                95                 100                 105
Ile Gly Gln Glu Val Ala Tyr Asn Leu Leu Val Asn Asn Cys Glu
               110                 115                 120
His Phe Val Thr Leu Leu Arg Tyr Gly Glu Gly Val Ser Glu Gln
               125                 130                 135
Ala Asn Arg Ala Ile Ser Thr Val Glu Phe Val Thr Ala Ala Val
               140                 145                 150
Gly Val Phe Ser Phe Leu Gly Leu Phe Pro Lys Gly Gln Arg Ala
               155                 160                 165
Lys Tyr Tyr

<210> 17
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1511488CD1

<400> 17
Met Leu Arg Ala Val Gly Ser Leu Leu Arg Leu Gly Arg Gly Leu
  1               5                  10                  15
Thr Val Arg Cys Gly Pro Gly Ala Pro Leu Glu Ala Thr Arg Arg
                20                  25                  30
Pro Ala Pro Ala Leu Pro Pro Arg Gly Leu Pro Cys Tyr Ser Ser
                35                  40                  45
Gly Gly Ala Pro Ser Asn Ser Gly Pro Gln Gly His Gly Glu Ile
                50                  55                  60
His Arg Val Pro Thr Gln Arg Arg Pro Ser Gln Phe Asp Lys Lys
                65                  70                  75
Ile Leu Leu Trp Thr Gly Arg Phe Lys Ser Met Glu Glu Ile Pro
                80                  85                  90
Pro Arg Ile Pro Pro Glu Met Ile Asp Thr Ala Arg Asn Lys Ala
                95                 100                 105
Arg Val Lys Ala Cys Tyr Ile Met Ile Gly Leu Thr Ile Ile Ala
               110                 115                 120
```

Cys Phe Ala Val Ile Val Ser Ala Lys Arg Ala Val Glu Arg His
125 130 135
Glu Ser Leu Thr Ser Trp Asn Leu Ala Lys Lys Ala Lys Trp Arg
140 145 150
Glu Glu Ala Ala Leu Ala Ala Gln Ala Lys Ala Lys
155 160

<210> 18
<211> 246
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1638819CD1

<400> 18
Met Ala Gly Tyr Leu Lys Leu Val Cys Val Ser Phe Gln Arg Gln
1 5 10 15
Gly Phe His Thr Val Gly Ser Arg Cys Lys Asn Arg Thr Gly Ala
20 25 30
Glu His Leu Trp Leu Thr Arg His Leu Arg Asp Pro Phe Val Lys
35 40 45
Ala Ala Lys Val Glu Ser Tyr Arg Cys Arg Ser Ala Phe Lys Leu
50 55 60
Leu Glu Val Asn Glu Arg His Gln Ile Leu Arg Pro Gly Leu Arg
65 70 75
Val Leu Asp Cys Gly Ala Ala Pro Gly Ala Trp Ser Gln Val Ala
80 85 90
Val Gln Lys Val Asn Ala Ala Gly Thr Asp Pro Ser Ser Pro Val
95 100 105
Gly Phe Val Leu Gly Val Asp Leu Leu His Ile Phe Pro Leu Glu
110 115 120
Gly Ala Thr Phe Leu Cys Pro Ala Asp Val Thr Asp Pro Arg Thr
125 130 135
Ser Gln Arg Ile Leu Glu Val Leu Pro Gly Arg Arg Ala Asp Val
140 145 150
Ile Leu Ser Asp Met Ala Pro Asn Ala Thr Gly Phe Arg Asp Leu
155 160 165
Asp His Asp Arg Leu Ile Ser Leu Cys Leu Thr Leu Leu Ser Val
170 175 180
Thr Pro Asp Ile Leu Gln Pro Gly Gly Thr Phe Leu Cys Lys Thr
185 190 195
Trp Ala Gly Ser Gln Ser Arg Arg Leu Gln Arg Arg Leu Thr Glu
200 205 210
Glu Phe Gln Asn Val Arg Ile Ile Lys Pro Glu Ala Ser Arg Lys
215 220 225
Glu Ser Ser Glu Val Tyr Phe Leu Ala Thr Gln Tyr His Gly Arg
230 235 240
Lys Gly Thr Val Lys Gln
245

<210> 19
<211> 483
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1655123CD1

<400> 19
Met Glu Glu Gly Gly Gly Gly Val Arg Ser Leu Val Pro Gly Gly
1 5 10 15
Pro Val Leu Leu Val Leu Cys Gly Leu Leu Glu Ala Ser Gly Gly

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                  20                  25                  30
Gly Arg Ala Leu Pro Gln Leu Ser Asp Asp Ile Pro Phe Arg Val
                  35                  40                  45
Asn Trp Pro Gly Thr Glu Phe Ser Leu Pro Thr Thr Gly Val Leu
                  50                  55                  60
Tyr Lys Glu Asp Asn Tyr Val Ile Met Thr Thr Ala His Lys Glu
                  65                  70                  75
Lys Tyr Lys Cys Ile Leu Pro Leu Val Thr Ser Gly Asp Glu Glu
                  80                  85                  90
Glu Glu Lys Asp Tyr Lys Gly Pro Asn Pro Arg Glu Leu Leu Glu
                  95                 100                 105
Pro Leu Phe Lys Gln Ser Ser Cys Ser Tyr Arg Ile Glu Ser Tyr
                 110                 115                 120
Trp Thr Tyr Glu Val Cys His Gly Lys His Ile Arg Gln Tyr His
                 125                 130                 135
Glu Glu Lys Glu Thr Gly Gln Lys Ile Asn Ile His Glu Tyr Tyr
                 140                 145                 150
Leu Gly Asn Met Leu Ala Lys Asn Leu Leu Phe Glu Lys Glu Arg
                 155                 160                 165
Glu Ala Glu Glu Lys Glu Lys Ser Asn Glu Ile Pro Thr Lys Asn
                 170                 175                 180
Ile Glu Gly Gln Met Thr Pro Tyr Tyr Pro Val Gly Met Gly Asn
                 185                 190                 195
Gly Thr Pro Cys Ser Leu Lys Gln Asn Arg Pro Arg Ser Ser Thr
                 200                 205                 210
Val Met Tyr Ile Cys His Pro Glu Ser Lys His Glu Ile Leu Ser
                 215                 220                 225
Val Ala Glu Val Thr Thr Cys Glu Tyr Glu Val Val Ile Leu Thr
                 230                 235                 240
Pro Leu Leu Cys Ser His Pro Lys Tyr Arg Phe Arg Ala Ser Pro
                 245                 250                 255
Val Asn Asp Ile Phe Cys Gln Ser Leu Pro Gly Ser Pro Phe Lys
                 260                 265                 270
Pro Leu Thr Leu Arg Gln Leu Glu Gln Gln Glu Glu Ile Leu Arg
                 275                 280                 285
Val Pro Phe Arg Arg Asn Lys Glu Glu Asp Leu Gln Ser Thr Lys
                 290                 295                 300
Glu Glu Arg Phe Pro Ala Ile His Lys Ser Ile Ala Ile Gly Ser
                 305                 310                 315
Gln Pro Val Leu Thr Val Gly Thr Thr His Ile Ser Lys Leu Thr
                 320                 325                 330
Asp Asp Gln Leu Ile Lys Glu Phe Leu Ser Gly Ser Tyr Cys Phe
                 335                 340                 345
Arg Gly Gly Val Gly Trp Trp Lys Tyr Glu Phe Cys Tyr Gly Lys
                 350                 355                 360
His Val His Gln Tyr His Glu Asp Lys Asp Ser Gly Lys Thr Ser
                 365                 370                 375
Val Val Val Gly Thr Trp Asn Gln Glu Glu His Ile Glu Trp Ala
                 380                 385                 390
Lys Lys Asn Thr Ala Arg Ala Tyr His Leu Gln Asp Asp Gly Thr
                 395                 400                 405
Gln Thr Val Arg Met Val Ser His Phe Tyr Gly Asn Gly Asp Ile
                 410                 415                 420
Cys Asp Ile Thr Asp Lys Pro Arg Gln Val Thr Val Lys Leu Lys
                 425                 430                 435
Cys Lys Glu Ser Asp Ser Pro His Ala Val Thr Val Tyr Met Leu
                 440                 445                 450
Glu Pro His Ser Cys Gln Tyr Ile Leu Gly Val Glu Ser Pro Val
                 455                 460                 465
Ile Cys Lys Ile Leu Asp Thr Ala Asp Glu Asn Gly Leu Leu Ser
                 470                 475                 480
Leu Pro Asn
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<210> 20
<211> 280
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2553926CD1

<400> 20
Met Glu Ala Ala Glu Thr Glu Ala Glu Ala Ala Ala Leu Glu Val
1 5 10 15
Leu Ala Glu Val Ala Gly Ile Leu Glu Pro Val Gly Leu Gln Glu
20 25 30
Glu Ala Glu Leu Pro Ala Lys Ile Leu Val Glu Phe Val Val Asp
35 40 45
Ser Gln Lys Lys Asp Lys Leu Leu Cys Ser Gln Leu Gln Val Ala
50 55 60
Asp Phe Leu Gln Asn Ile Leu Ala Gln Glu Asp Thr Ala Lys Gly
65 70 75
Leu Asp Pro Leu Ala Ser Glu Asp Thr Ser Arg Gln Lys Ala Ile
80 85 90
Ala Ala Lys Glu Gln Trp Lys Glu Leu Lys Ala Thr Tyr Arg Glu
95 100 105
His Val Glu Ala Ile Lys Ile Gly Leu Thr Lys Ala Leu Thr Gln
110 115 120
Met Glu Glu Ala Gln Arg Lys Arg Thr Gln Leu Arg Glu Ala Phe
125 130 135
Glu Gln Leu Gln Ala Lys Lys Gln Met Ala Met Glu Lys Arg Arg
140 145 150
Ala Val Gln Asn Gln Trp Gln Leu Gln Gln Glu Lys His Leu Gln
155 160 165
His Leu Ala Glu Val Ser Ala Glu Val Arg Glu Arg Lys Thr Gly
170 175 180
Thr Gln Gln Glu Leu Asp Gly Val Phe Gln Lys Leu Gly Asn Leu
185 190 195
Lys Gln Gln Ala Glu Gln Glu Arg Asp Lys Leu Gln Arg Tyr Gln
200 205 210
Thr Phe Leu Gln Leu Leu Tyr Thr Leu Gln Gly Lys Leu Leu Phe
215 220 225
Pro Glu Ala Glu Ala Glu Ala Glu Asn Leu Pro Asp Asp Lys Pro
230 235 240
Gln Gln Pro Thr Arg Pro Gln Glu Gln Ser Thr Gly Asp Thr Met
245 250 255
Gly Arg Asp Pro Gly Val Ser Phe Lys Phe Ser Lys Ala Val Gly
260 265 270
Leu Gln Pro Ala Gly Asp Val Asn Leu Pro
275 280

<210> 21
<211> 425
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2800717CD1

<400> 21
Met Gly Glu Asp Ala Ala Gln Ala Glu Lys Phe Gln His Pro Gly
1 5 10 15
Ser Asp Met Arg Gln Glu Lys Pro Ser Ser Pro Ser Pro Met Pro
20 25 30
Ser Ser Thr Pro Ser Pro Ser Leu Asn Leu Gly Asn Thr Glu Glu

```
                    35                  40                  45
Ala Ile Arg Asp Asn Ser Gln Val Asn Ala Val Thr Val Leu Thr
                    50                  55                  60
Leu Leu Asp Lys Leu Val Asn Met Leu Asp Ala Val Gln Glu Asn
                    65                  70                  75
Gln His Lys Met Glu Gln Arg Gln Ile Ser Leu Glu Gly Ser Val
                    80                  85                  90
Lys Gly Ile Gln Asn Asp Leu Thr Lys Leu Ser Lys Tyr Gln Ala
                    95                 100                 105
Ser Thr Ser Asn Thr Val Ser Lys Leu Leu Glu Lys Ser Arg Lys
                   110                 115                 120
Val Ser Ala His Thr Arg Ala Val Lys Glu Arg Met Asp Arg Gln
                   125                 130                 135
Cys Ala Gln Val Lys Arg Leu Glu Asn Asn His Ala Gln Leu Leu
                   140                 145                 150
Arg Arg Asn His Phe Lys Val Leu Ile Phe Gln Glu Glu Asn Glu
                   155                 160                 165
Ile Pro Ala Ser Val Phe Val Lys Gln Pro Val Ser Gly Ala Val
                   170                 175                 180
Glu Gly Lys Glu Glu Leu Pro Asp Glu Asn Lys Ser Leu Glu Glu
                   185                 190                 195
Thr Leu His Thr Val Asp Leu Ser Ser Asp Asp Asp Leu Pro His
                   200                 205                 210
Asp Glu Glu Ala Leu Glu Asp Ser Ala Glu Glu Lys Val Glu Glu
                   215                 220                 225
Ser Arg Ala Glu Lys Ile Lys Arg Ser Ser Leu Lys Lys Val Asp
                   230                 235                 240
Ser Leu Lys Lys Ala Phe Ser Arg Gln Asn Ile Glu Lys Lys Met
                   245                 250                 255
Asn Lys Leu Gly Thr Lys Ile Val Ser Val Glu Arg Arg Glu Lys
                   260                 265                 270
Ile Lys Lys Ser Leu Thr Ser Asn His Gln Lys Ile Ser Ser Gly
                   275                 280                 285
Lys Ser Ser Pro Phe Lys Val Ser Pro Leu Thr Phe Gly Arg Lys
                   290                 295                 300
Lys Val Arg Glu Gly Glu Ser His Ala Glu Asn Glu Thr Lys Ser
                   305                 310                 315
Glu Asp Leu Pro Ser Ser Glu Gln Met Pro Asn Asp Gln Glu Glu
                   320                 325                 330
Glu Ser Phe Ala Glu Gly His Ser Glu Ala Ser Leu Ala Ser Ala
                   335                 340                 345
Leu Val Glu Gly Glu Ile Ala Glu Glu Ala Ala Glu Lys Ala Thr
                   350                 355                 360
Ser Arg Gly Ser Asn Ser Gly Met Asp Ser Asn Ile Asp Leu Thr
                   365                 370                 375
Ile Val Glu Asp Glu Glu Glu Glu Ser Val Ala Leu Glu Gln Ala
                   380                 385                 390
Gln Lys Val Arg Tyr Glu Gly Ser Tyr Ala Leu Thr Ser Glu Glu
                   395                 400                 405
Ala Glu Arg Ser Asp Gly Asp Pro Val Gln Pro Ala Val Leu Gln
                   410                 415                 420
Val His Gln Thr Ser
                   425
<210> 22
<211> 128
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5664154CD1

<400> 22
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Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu
  1               5                  10                  15
Asn Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val
                20                  25                  30
Ala Asn Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu
                35                  40                  45
Tyr Cys Val Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln
                50                  55                  60
Pro Ile Leu Gln Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu
                65                  70                  75
Pro Gln Ala Arg Met Arg Glu Glu Asn Met Glu Arg Ile Gly Glu
                80                  85                  90
Glu Val Arg Gln Leu Met Glu Lys Leu Arg Glu Lys Gln Leu Ser
                95                 100                 105
His Ser Leu Arg Ala Val Ser Thr Asp Pro Pro His His Asp His
               110                 115                 120
His Asp Glu Phe Cys Leu Met Pro
               125
<210> 23
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 017900CD1

<400> 23
Met Asp Gly Arg Val Gln Leu Ile Lys Ala Leu Leu Ala Leu Pro
  1               5                  10                  15
Ile Arg Pro Ala Thr Arg Arg Trp Arg Asn Pro Ile Pro Phe Pro
                20                  25                  30
Glu Thr Phe Asp Gly Asp Thr Asp Arg Leu Pro Glu Phe Ile Val
                35                  40                  45
Gln Thr Gly Ser Tyr Met Phe Val Asp Glu Asn Thr Phe Ser Ser
                50                  55                  60
Asp Ala Leu Lys Val Thr Phe Leu Ile Thr Arg Leu Thr Gly Pro
                65                  70                  75
Ala Leu Gln Trp Val Ile Pro Tyr Ile Lys Lys Glu Ser Pro Leu
                80                  85                  90
Leu Asn Asp Tyr Arg Gly Phe Leu Ala Glu Met Lys Arg Val Phe
                95                 100                 105
Gly Trp Glu Glu Asp Glu Asp Phe
               110
<210> 24
<211> 308
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 035102CD1

<400> 24
Met Leu Gln Thr Pro Glu Ser Arg Gly Leu Pro Val Pro Gln Ala
  1               5                  10                  15
Glu Gly Glu Lys Asp Gly Gly His Asp Gly Glu Thr Arg Ala Pro
                20                  25                  30
Thr Ala Ser Gln Glu Arg Pro Lys Glu Glu Leu Gly Ala Gly Arg
                35                  40                  45
Glu Glu Gly Ala Ala Glu Pro Ala Leu Thr Arg Lys Gly Ala Arg
                50                  55                  60
Ala Leu Ala Ala Lys Ser Leu Ala Arg Arg Arg Ala Tyr Arg Arg
```

```
                 65                  70                  75
Leu Asn Arg Thr Val Ala Glu Leu Val Gln Phe Leu Leu Val Lys
                 80                  85                  90
Asp Lys Lys Lys Ser Pro Ile Thr Arg Ser Glu Met Val Lys Tyr
                 95                 100                 105
Val Ile Gly Asp Leu Lys Ile Leu Phe Pro Asp Ile Ile Ala Arg
                110                 115                 120
Ala Ala Glu His Leu Arg Tyr Val Phe Gly Phe Glu Leu Lys Gln
                125                 130                 135
Phe Asp Arg Lys His His Thr Tyr Ile Leu Ile Asn Lys Leu Lys
                140                 145                 150
Pro Leu Glu Glu Glu Glu Glu Glu Glu Asp Leu Gly Gly Asp Gly
                155                 160                 165
Pro Arg Leu Gly Leu Leu Met Met Ile Leu Gly Leu Ile Tyr Met
                170                 175                 180
Arg Gly Asn Ser Ala Arg Glu Ala Gln Val Trp Glu Met Leu Arg
                185                 190                 195
Arg Leu Gly Val Gln Pro Ser Lys Tyr His Phe Leu Phe Gly Tyr
                200                 205                 210
Pro Lys Arg Leu Ile Met Glu Asp Phe Val Gln Gln Arg Tyr Leu
                215                 220                 225
Ser Tyr Arg Arg Val Pro His Thr Asn Pro Pro Ala Tyr Glu Phe
                230                 235                 240
Ser Trp Gly Pro Arg Ser Asn Leu Glu Ile Ser Lys Met Glu Val
                245                 250                 255
Leu Gly Phe Val Ala Lys Leu His Lys Lys Glu Pro Gln His Trp
                260                 265                 270
Pro Val Gln Tyr Arg Glu Ala Leu Ala Asp Glu Ala Asp Arg Ala
                275                 280                 285
Arg Ala Lys Ala Arg Ala Glu Ala Ser Met Arg Ala Arg Ala Ser
                290                 295                 300
Ala Arg Ala Gly Ile His Leu Trp
                305
<210> 25
<211> 221
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 259983CD1

<400> 25
Met Phe Gly Phe His Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly
  1                 5                  10                  15
Cys Cys Ile Cys Arg Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp
                 20                  25                  30
Ser Lys Arg Tyr Glu Lys Asp Phe Gln Ser Cys Phe Gly Leu His
                 35                  40                  45
Glu Thr Arg Ser Gly Asp Ile Cys Asn Ala Cys Val Leu Leu Val
                 50                  55                  60
Lys Arg Trp Lys Lys Leu Pro Ala Gly Ser Lys Lys Asn Trp Asn
                 65                  70                  75
His Val Val Asp Ala Arg Ala Gly Pro Ser Leu Lys Thr Thr Leu
                 80                  85                  90
Lys Pro Lys Lys Val Lys Thr Leu Ser Gly Asn Arg Ile Lys Ser
                 95                 100                 105
Asn Gln Ile Ser Lys Leu Gln Lys Glu Phe Lys Arg His Asn Ser
                110                 115                 120
Asp Ala His Ser Thr Thr Ser Ser Ala Ser Pro Ala Gln Ser Pro
                125                 130                 135
Cys Tyr Ser Asn Gln Ser Asp Asp Gly Ser Asp Thr Glu Met Ala
                140                 145                 150
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```
Ser Gly Ser Asn Arg Thr Pro Val Phe Ser Phe Leu Asp Leu Thr
                155                 160                 165
Tyr Trp Lys Arg Gln Lys Ile Cys Cys Gly Ile Ile Tyr Lys Gly
                170                 175                 180
Arg Phe Gly Glu Val Leu Ile Asp Thr His Leu Phe Lys Pro Cys
                185                 190                 195
Cys Ser Asn Lys Lys Ala Ala Ala Glu Lys Pro Glu Glu Gln Gly
                200                 205                 210
Pro Glu Pro Leu Pro Ile Ser Thr Gln Glu Trp
                215                 220
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<210> 26
<211> 402
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 926810CD1

<400> 26

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Met Ala Ser Ile Ile Ala Arg Val Gly Asn Ser Arg Arg Leu Asn
  1               5                  10                  15
Ala Pro Leu Pro Pro Trp Ala His Ser Met Leu Arg Ser Leu Gly
                20                  25                  30
Arg Ser Leu Gly Pro Ile Met Ala Ser Met Ala Asp Arg Asn Met
                35                  40                  45
Lys Leu Phe Ser Gly Arg Val Val Pro Ala Gln Gly Glu Glu Thr
                50                  55                  60
Phe Glu Asn Trp Leu Thr Gln Val Asn Gly Val Leu Pro Asp Trp
                65                  70                  75
Asn Met Ser Glu Glu Glu Lys Leu Lys Arg Leu Met Lys Thr Leu
                80                  85                  90
Arg Gly Pro Ala Arg Glu Val Met Arg Val Leu Gln Ala Thr Asn
                95                 100                 105
Pro Asn Leu Ser Val Ala Asp Phe Leu Arg Ala Met Lys Leu Val
               110                 115                 120
Phe Gly Glu Ser Glu Ser Ser Val Thr Ala His Gly Lys Phe Phe
               125                 130                 135
Asn Thr Leu Gln Ala Gln Gly Glu Lys Ala Ser Leu Tyr Val Ile
               140                 145                 150
Arg Leu Glu Val Gln Leu Gln Asn Ala Ile Gln Ala Gly Ile Ile
               155                 160                 165
Ala Glu Lys Asp Ala Asn Arg Thr Arg Leu Gln Gln Leu Leu Leu
               170                 175                 180
Gly Gly Glu Leu Ser Arg Asp Leu Arg Leu Arg Leu Lys Asp Phe
               185                 190                 195
Leu Arg Met Tyr Ala Asn Glu Gln Glu Arg Leu Pro Asn Phe Leu
               200                 205                 210
Glu Leu Ile Arg Met Val Arg Glu Glu Glu Asp Trp Asp Asp Ala
               215                 220                 225
Phe Ile Lys Arg Lys Arg Pro Lys Arg Ser Glu Ser Met Val Glu
               230                 235                 240
Arg Ala Val Ser Pro Val Ala Phe Gln Gly Ser Pro Pro Ile Val
               245                 250                 255
Ile Gly Ser Ala Asp Cys Asn Val Ile Glu Ile Asp Asp Thr Leu
               260                 265                 270
Asp Asp Ser Asp Glu Asp Val Ile Leu Val Glu Ser Gln Asp Pro
               275                 280                 285
Pro Leu Pro Ser Trp Gly Ala Pro Pro Leu Arg Asp Arg Ala Arg
               290                 295                 300
Pro Gln Asp Glu Val Leu Val Ile Asp Ser Pro His Asn Ser Arg
               305                 310                 315
Ala Gln Phe Pro Ser Thr Ser Gly Gly Ser Gly Tyr Lys Asn Asn
```

320 325 330
Gly Pro Gly Glu Met Arg Arg Ala Arg Lys Arg Lys His Thr Ile
335 340 345
Arg Cys Ser Tyr Cys Gly Glu Glu Gly His Ser Lys Glu Thr Cys
350 355 360
Asp Asn Glu Ser Asp Lys Ala Gln Val Phe Glu Asn Leu Ile Ile
365 370 375
Thr Leu Gln Glu Leu Thr His Thr Glu Met Glu Arg Ser Arg Val
380 385 390
Ala Pro Gly Glu Tyr Asn Asp Phe Ser Glu Pro Leu
395 400

<210> 27
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1398816CD1

<400> 27
Met Ser Thr Asp Thr Gly Val Ser Leu Pro Ser Tyr Glu Glu Asp
1 5 10 15
Gln Gly Ser Lys Leu Ile Arg Lys Ala Lys Glu Ala Pro Phe Val
20 25 30
Pro Val Gly Ile Ala Gly Phe Ala Ala Ile Val Ala Tyr Gly Leu
35 40 45
Tyr Lys Leu Lys Ser Arg Gly Asn Thr Lys Met Ser Ile His Leu
50 55 60
Ile His Met Arg Val Ala Ala Gln Gly Phe Val Val Gly Ala Met
65 70 75
Thr Val Gly Met Gly Tyr Ser Met Tyr Arg Glu Phe Trp Ala Lys
80 85 90
Pro Lys Pro

<210> 28
<211> 353
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1496820CD1

<400> 28
Met Asn Arg Glu Asp Arg Asn Val Leu Arg Met Lys Glu Arg Glu
1 5 10 15
Arg Arg Asn Gln Glu Ile Gln Gln Gly Glu Asp Ala Phe Pro Pro
20 25 30
Ser Ser Pro Leu Phe Ala Glu Pro Tyr Lys Val Thr Ser Lys Glu
35 40 45
Asp Lys Leu Ser Ser Arg Ile Gln Ser Met Leu Gly Asn Tyr Asp
50 55 60
Glu Met Lys Asp Phe Ile Gly Asp Arg Ser Ile Pro Lys Leu Val
65 70 75
Ala Ile Pro Lys Pro Thr Val Pro Pro Ser Ala Asp Glu Lys Ser
80 85 90
Asn Pro Asn Phe Phe Glu Gln Arg His Gly Gly Ser His Gln Ser
95 100 105
Ser Lys Trp Thr Pro Val Gly Pro Ala Pro Ser Thr Ser Gln Ser
110 115 120
Gln Lys Arg Ser Ser Gly Leu Gln Ser Gly His Ser Ser Gln Arg
125 130 135

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Thr Ser Ala Gly Ser Ser Ser Gly Thr Asn Ser Ser Gly Gln Arg
                140                 145                 150
His Asp Arg Glu Ser Tyr Asn Asn Ser Gly Ser Ser Ser Arg Lys
                155                 160                 165
Lys Gly Gln His Gly Ser Glu His Ser Lys Ser Arg Ser Ser Ser
                170                 175                 180
Pro Gly Lys Pro Gln Ala Val Ser Ser Leu Asn Ser Ser His Ser
                185                 190                 195
Arg Ser His Gly Asn Asp His His Ser Lys Glu His Gln Arg Ser
                200                 205                 210
Lys Ser Pro Arg Asp Pro Asp Ala Asn Trp Asp Ser Pro Ser Arg
                215                 220                 225
Val Pro Phe Ser Ser Gly Gln His Ser Thr Gln Ser Phe Pro Pro
                230                 235                 240
Ser Leu Met Ser Lys Ser Asn Ser Met Leu Gln Lys Pro Thr Ala
                245                 250                 255
Tyr Val Arg Pro Met Asp Gly Gln Glu Ser Met Glu Pro Lys Leu
                260                 265                 270
Ser Ser Glu His Tyr Ser Ser Gln Ser His Gly Asn Ser Met Thr
                275                 280                 285
Glu Leu Lys Pro Ser Ser Lys Ala His Leu Thr Lys Leu Lys Ile
                290                 295                 300
Pro Ser Gln Pro Leu Asp Ala Ser Ala Ser Gly Asp Val Ser Cys
                305                 310                 315
Val Asp Glu Ile Leu Lys Glu Met Thr His Ser Trp Pro Pro Pro
                320                 325                 330
Leu Thr Ala Ile His Thr Pro Cys Lys Thr Glu Pro Ser Lys Phe
                335                 340                 345
Pro Phe Pro Thr Lys Val Ser Lys
                350

<210> 29
<211> 120
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1514559CD1

<400> 29
Met Ser Glu Pro Ala Gly Asp Val Arg Gln Asn Pro Cys Gly Ser
  1               5                  10                  15
Lys Ala Cys Arg Arg Leu Phe Gly Pro Val Asp Ser Glu Gln Leu
                20                  25                  30
Ser Arg Asp Cys Asp Ala Leu Met Ala Gly Cys Ile Gln Glu Ala
                35                  40                  45
Arg Glu Arg Trp Asn Phe Asp Phe Val Thr Glu Thr Pro Leu Glu
                50                  55                  60
Gly Asp Phe Ala Trp Glu Arg Val Arg Gly Leu Gly Leu Pro Lys
                65                  70                  75
Leu Tyr Leu Pro Thr Trp Ser Ala Gly Trp Tyr Pro Leu Glu Gly
                80                  85                  90
Cys Gly Ser Phe Pro Ser Leu Ser Gln Ala Val Met Lys Phe Thr
                95                  100                 105
Pro Phe Pro Gly His Ser Asp Leu Asn Ser Phe Ser Phe Glu Lys
                110                 115                 120

<210> 30
<211> 144
<212> PRT
<213> Homo sapiens

<220>
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<221> misc_feature
<223> Incyte ID No: 1620092CD1

<400> 30
Met Arg Ser Cys Phe Arg Leu Cys Glu Arg Asp Val Ser Ser Ser
1 5 10 15
Leu Arg Leu Thr Arg Ser Ser Asp Leu Lys Arg Ile Asn Gly Phe
20 25 30
Cys Thr Lys Pro Gln Glu Ser Pro Gly Ala Pro Ser Arg Thr Tyr
35 40 45
Asn Arg Val Pro Leu His Lys Pro Thr Asp Trp Gln Lys Lys Ile
50 55 60
Leu Ile Trp Ser Gly Arg Phe Lys Lys Glu Asp Glu Ile Pro Glu
65 70 75
Thr Val Ser Leu Glu Met Leu Asp Ala Ala Lys Asn Lys Met Arg
80 85 90
Val Lys Ile Ser Tyr Leu Met Ile Ala Leu Thr Val Val Gly Cys
95 100 105
Ile Phe Met Val Ile Glu Gly Lys Lys Ala Ala Gln Arg His Glu
110 115 120
Thr Leu Thr Ser Leu Asn Leu Glu Lys Lys Ala Arg Leu Lys Glu
125 130 135
Glu Ala Ala Met Lys Ala Lys Thr Glu
140
<210> 31
<211> 933
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1678765CD1

<400> 31
Met Phe Tyr Leu Glu Asp Asp Lys Glu Asp Glu Val Val Cys Lys
1 5 10 15
Gly Ser Leu Ser Lys Thr Gln Asp Val Tyr His Asp Lys Ser Pro
20 25 30
Pro Gly Ile Leu Ser Gln Thr Met Asn Tyr Val Gly Gln Leu Ala
35 40 45
Gly Gln Val Ile Val Thr Val Lys Glu Leu Tyr Lys Gly Ile Asn
50 55 60
Gln Ala Thr Leu Ser Gly Cys Ile Asp Val Ile Val Val Gln Gln
65 70 75
Gln Asp Gly Ser Tyr Gln Cys Ser Pro Phe His Val Arg Phe Gly
80 85 90
Lys Leu Gly Val Leu Arg Ser Lys Glu Lys Val Ile Asp Ile Glu
95 100 105
Ile Asn Gly Ser Ala Val Asp Leu His Met Lys Leu Gly Asp Asn
110 115 120
Gly Glu Ala Phe Phe Val Glu Glu Thr Glu Glu Glu Tyr Glu Lys
125 130 135
Leu Pro Ala Tyr Leu Ala Thr Ser Pro Ile Pro Thr Glu Asp Gln
140 145 150
Phe Phe Lys Asp Ile Asp Thr Pro Leu Val Lys Ser Gly Gly Asp
155 160 165
Glu Thr Pro Ser Gln Ser Ser Asp Ile Ser His Val Leu Glu Thr
170 175 180
Glu Thr Ile Phe Thr Pro Ser Ser Val Lys Lys Lys Lys Arg Arg
185 190 195
Arg Lys Lys Tyr Lys Gln Asp Ser Lys Lys Glu Glu Gln Ala Ala
200 205 210
Ser Ala Ala Ala Glu Asp Thr Cys Asp Val Gly Val Ser Ser Asp

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                215                 220                 225
Asp Asp Lys Gly Ala Gln Ala Ala Arg Gly Ser Ser Asn Ala Ser
                230                 235                 240
Leu Lys Glu Glu Glu Cys Lys Glu Pro Leu Leu Phe His Ser Gly
                245                 250                 255
Asp His Tyr Pro Leu Ser Asp Gly Asp Trp Ser Pro Leu Glu Thr
                260                 265                 270
Thr Tyr Pro Gln Thr Ala Cys Pro Lys Ser Asp Ser Glu Leu Glu
                275                 280                 285
Val Lys Pro Ala Glu Ser Leu Leu Arg Ser Glu Tyr His Met Glu
                290                 295                 300
Trp Thr Trp Gly Gly Phe Pro Glu Ser Thr Lys Val Ser Lys Arg
                305                 310                 315
Glu Arg Ser Asp His His Pro Arg Thr Ala Thr Ile Thr Pro Ser
                320                 325                 330
Glu Asn Thr His Phe Arg Val Ile Pro Ser Glu Asp Asn Leu Ile
                335                 340                 345
Ser Glu Val Glu Lys Asp Ala Ser Met Glu Asp Thr Val Cys Thr
                350                 355                 360
Ile Val Lys Pro Lys Pro Arg Ala Leu Gly Thr Gln Met Ser Asp
                365                 370                 375
Pro Thr Ser Val Ala Glu Leu Leu Glu Pro Pro Leu Glu Ser Thr
                380                 385                 390
Gln Ile Ser Ser Met Leu Asp Ala Asp His Leu Pro Asn Ala Ala
                395                 400                 405
Leu Ala Glu Ala Pro Ser Glu Ser Lys Pro Ala Ala Lys Val Asp
                410                 415                 420
Ser Pro Ser Lys Lys Lys Gly Val His Lys Arg Ile Gln His Gln
                425                 430                 435
Gly Pro Asp Asp Ile Tyr Leu Asp Asp Leu Lys Gly Leu Glu Pro
                440                 445                 450
Glu Val Ala Ala Leu Tyr Phe Pro Lys Ser Glu Ser Glu Pro Gly
                455                 460                 465
Ser Arg Gln Trp Pro Glu Ser Asp Thr Leu Ser Gly Ser Gln Ser
                470                 475                 480
Pro Gln Ser Val Gly Ser Ala Ala Ala Asp Ser Gly Thr Glu Cys
                485                 490                 495
Leu Ser Asp Ser Ala Met Asp Leu Pro Asp Val Thr Leu Ser Leu
                500                 505                 510
Cys Gly Gly Leu Ser Glu Asn Gly Lys Ile Ser Lys Glu Lys Phe
                515                 520                 525
Met Glu His Ile Ile Thr Tyr His Glu Phe Ala Glu Asn Pro Gly
                530                 535                 540
Leu Ile Asp Asn Pro Asn Leu Val Ile Arg Ile Tyr Asn Arg Tyr
                545                 550                 555
Tyr Asn Trp Ala Leu Ala Ala Pro Met Ile Leu Ser Leu Gln Val
                560                 565                 570
Phe Gln Lys Ser Leu Pro Lys Ala Thr Val Glu Ser Trp Val Lys
                575                 580                 585
Asp Lys Met Pro Lys Lys Ser Gly Arg Trp Trp Phe Trp Arg Lys
                590                 595                 600
Arg Glu Ser Met Thr Lys Gln Leu Pro Glu Ser Lys Glu Gly Lys
                605                 610                 615
Ser Glu Ala Pro Pro Ala Ser Asp Leu Pro Ser Ser Ser Lys Glu
                620                 625                 630
Pro Ala Gly Ala Arg Pro Ala Glu Asn Asp Ser Ser Ser Asp Glu
                635                 640                 645
Gly Ser Gln Glu Leu Glu Glu Ser Ile Thr Val Asp Pro Ile Pro
                650                 655                 660
Thr Glu Pro Leu Ser His Gly Ser Thr Thr Ser Tyr Lys Lys Ser
                665                 670                 675
Leu Arg Leu Ser Ser Asp Gln Ile Ala Lys Leu Lys Leu His Asp
                680                 685                 690
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Gly Pro Asn Asp Val Val Phe Ser Ile Thr Thr Gln Tyr Gln Gly
                695                 700                 705
Thr Cys Arg Cys Ala Gly Thr Ile Tyr Leu Trp Asn Trp Asn Asp
                710                 715                 720
Lys Ile Ile Ile Ser Asp Ile Asp Gly Thr Ile Thr Lys Ser Asp
                725                 730                 735
Ala Leu Gly Gln Ile Leu Pro Gln Leu Gly Lys Asp Trp Thr His
                740                 745                 750
Gln Gly Ile Ala Lys Leu Tyr His Ser Ile Asn Glu Asn Gly Tyr
                755                 760                 765
Lys Phe Leu Tyr Cys Ser Ala Arg Ala Ile Gly Met Ala Asp Met
                770                 775                 780
Thr Arg Gly Tyr Leu His Trp Val Asn Asp Lys Gly Thr Ile Leu
                785                 790                 795
Pro Arg Gly Pro Leu Met Leu Ser Pro Ser Ser Leu Phe Ser Ala
                800                 805                 810
Phe His Arg Glu Val Ile Glu Lys Lys Pro Glu Lys Phe Lys Ile
                815                 820                 825
Glu Cys Leu Asn Asp Ile Lys Asn Leu Phe Ala Pro Ser Lys Gln
                830                 835                 840
Pro Phe Tyr Ala Ala Phe Gly Asn Arg Pro Asn Asp Val Tyr Ala
                845                 850                 855
Tyr Thr Gln Val Gly Val Pro Asp Cys Arg Ile Phe Thr Val Asn
                860                 865                 870
Pro Lys Gly Glu Leu Ile Gln Glu Arg Thr Lys Gly Asn Lys Ser
                875                 880                 885
Ser Tyr His Arg Leu Ser Glu Leu Val Glu His Val Phe Pro Leu
                890                 895                 900
Leu Ser Lys Glu Gln Asn Ser Ala Phe Pro Cys Pro Glu Phe Ser
                905                 910                 915
Ser Phe Cys Tyr Trp Arg Asp Pro Ile Pro Glu Val Asp Leu Asp
                920                 925                 930
Asp Leu Ser

<210> 32
<211> 268
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1708229CD1

<400> 32
Met Leu Gly Asp His Cys Ser Leu Pro Glu Asp Gln Ala Arg Pro
  1                 5                  10                  15
Gly Gln Ser Leu Gln Ser Gly Leu Cys Cys Lys Met Val Leu Gln
                 20                  25                  30
Ala Val Ser Lys Val Leu Arg Lys Ser Lys Ala Lys Pro Asn Gly
                 35                  40                  45
Lys Lys Pro Ala Ala Glu Glu Arg Lys Ala Tyr Leu Glu Pro Glu
                 50                  55                  60
His Thr Lys Ala Arg Ile Thr Asp Phe Gln Phe Lys Glu Leu Val
                 65                  70                  75
Val Leu Pro Arg Glu Ile Asp Leu Asn Glu Trp Leu Ala Ser Asn
                 80                  85                  90
Thr Thr Thr Phe Phe His His Ile Asn Leu Gln Tyr Ser Thr Ile
                 95                 100                 105
Ser Glu Phe Cys Thr Gly Glu Thr Cys Gln Thr Met Ala Val Cys
                110                 115                 120
Asn Thr Gln Tyr Tyr Trp Tyr Asp Glu Arg Gly Lys Lys Val Lys
                125                 130                 135
Cys Thr Ala Pro Gln Tyr Val Asp Phe Val Met Ser Ser Val Gln
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                  140                 145                 150
Lys Leu Val Thr Asp Glu Asp Val Phe Pro Thr Lys Tyr Gly Arg
                  155                 160                 165
Glu Phe Pro Ser Ser Phe Glu Ser Leu Val Arg Lys Ile Cys Arg
                  170                 175                 180
His Leu Phe His Val Leu Ala His Ile Tyr Trp Ala His Phe Lys
                  185                 190                 195
Glu Thr Leu Ala Leu Glu Leu His Gly His Leu Asn Thr Leu Tyr
                  200                 205                 210
Val His Phe Ile Leu Phe Ala Arg Glu Phe Asn Leu Leu Asp Pro
                  215                 220                 225
Lys Glu Thr Ala Ile Met Asp Asp Leu Thr Glu Val Leu Cys Ser
                  230                 235                 240
Gly Ala Gly Gly Val His Ser Gly Gly Ser Gly Asp Gly Ala Gly
                  245                 250                 255
Ser Gly Gly Pro Gly Ala Gln Asn His Val Lys Glu Arg
                  260                 265
<210> 33
<211> 337
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1806454CD1

<400> 33
Met Leu Leu Gly Leu Ala Ala Met Glu Leu Lys Val Trp Val Asp
  1                 5                  10                  15
Gly Ile Gln Arg Val Val Cys Gly Val Ser Glu Gln Thr Thr Cys
                  20                  25                  30
Gln Glu Val Val Ile Ala Leu Ala Gln Ala Ile Gly Gln Thr Gly
                  35                  40                  45
Arg Phe Val Leu Val Gln Arg Leu Arg Glu Lys Glu Arg Gln Leu
                  50                  55                  60
Leu Pro Gln Glu Cys Pro Val Gly Ala Gln Ala Thr Cys Gly Gln
                  65                  70                  75
Phe Ala Ser Asp Val Gln Phe Val Leu Arg Arg Thr Gly Pro Ser
                  80                  85                  90
Leu Ala Gly Arg Pro Ser Ser Asp Ser Cys Pro Pro Pro Glu Arg
                  95                 100                 105
Cys Leu Ile Arg Ala Ser Leu Pro Val Lys Pro Arg Ala Ala Leu
                 110                 115                 120
Gly Cys Glu Pro Arg Lys Thr Leu Thr Pro Glu Pro Ala Pro Ser
                 125                 130                 135
Leu Ser Arg Pro Gly Pro Ala Ala Pro Val Thr Pro Thr Pro Gly
                 140                 145                 150
Cys Cys Thr Asp Leu Arg Gly Leu Glu Leu Arg Val Gln Arg Asn
                 155                 160                 165
Ala Glu Glu Leu Gly His Glu Ala Phe Trp Glu Gln Glu Leu Arg
                 170                 175                 180
Arg Glu Gln Ala Arg Glu Arg Glu Gly Gln Ala Arg Leu Gln Ala
                 185                 190                 195
Leu Ser Ala Ala Thr Ala Glu His Ala Ala Arg Leu Gln Ala Leu
                 200                 205                 210
Asp Ala Gln Ala Arg Ala Leu Glu Ala Glu Leu Gln Leu Ala Ala
                 215                 220                 225
Glu Ala Pro Gly Pro Pro Ser Pro Met Ala Ser Ala Thr Glu Arg
                 230                 235                 240
Leu His Gln Asp Leu Ala Val Gln Glu Arg Gln Ser Ala Glu Val
                 245                 250                 255
Gln Gly Ser Leu Ala Leu Val Ser Arg Ala Leu Glu Ala Ala Glu
                 260                 265                 270
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Arg Ala Leu Gln Ala Gln Ala Gln Glu Leu Glu Glu Leu Asn Arg
                275                 280                 285
Glu Leu Arg Gln Cys Asn Leu Gln Gln Phe Ile Gln Gln Thr Gly
                290                 295                 300
Ala Ala Leu Pro Pro Pro Pro Arg Pro Asp Arg Gly Pro Pro Gly
                305                 310                 315
Thr Gln Val Gly Val Val Leu Gly Gly Gly Trp Glu Val Arg Thr
                320                 325                 330
Trp Pro Ser Pro Thr Pro Ser
                335
<210> 34
<211> 565
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1806850CD1

<400> 34
Met Lys Glu Glu Glu Glu Val Phe Gln Pro Met Leu Met Glu Tyr
  1               5                  10                  15
Phe Thr Tyr Glu Glu Leu Lys Tyr Ile Lys Lys Lys Val Ile Ala
                20                  25                  30
Gln His Cys Ser Gln Lys Asp Thr Ala Glu Leu Leu Arg Gly Leu
                35                  40                  45
Ser Leu Trp Asn His Ala Glu Glu Arg Gln Lys Phe Phe Lys Tyr
                50                  55                  60
Ser Val Asp Glu Lys Ser Asp Lys Glu Ala Glu Val Ser Glu His
                65                  70                  75
Ser Thr Gly Ile Thr His Leu Pro Pro Glu Val Met Leu Ser Ile
                80                  85                  90
Phe Ser Tyr Leu Asn Pro Gln Glu Leu Cys Arg Cys Ser Gln Val
                95                 100                 105
Ser Met Lys Trp Ser Gln Leu Thr Lys Thr Gly Ser Leu Trp Lys
               110                 115                 120
His Leu Tyr Pro Val His Trp Ala Arg Gly Asp Trp Tyr Ser Gly
               125                 130                 135
Pro Ala Thr Glu Leu Asp Thr Glu Pro Asp Asp Glu Trp Val Lys
               140                 145                 150
Asn Arg Lys Asp Glu Ser Arg Ala Phe His Glu Trp Asp Glu Asp
               155                 160                 165
Ala Asp Ile Asp Glu Ser Glu Glu Ser Ala Glu Glu Ser Ile Ala
               170                 175                 180
Ile Ser Ile Ala Gln Met Glu Lys Arg Leu Leu His Gly Leu Ile
               185                 190                 195
His Asn Val Leu Pro Tyr Val Gly Thr Ser Val Lys Thr Leu Val
               200                 205                 210
Leu Ala Tyr Ser Ser Ala Val Ser Ser Lys Met Val Arg Gln Ile
               215                 220                 225
Leu Glu Leu Cys Pro Asn Leu Glu His Leu Asp Leu Thr Gln Thr
               230                 235                 240
Asp Ile Ser Asp Ser Ala Phe Asp Ser Trp Ser Trp Leu Gly Cys
               245                 250                 255
Cys Gln Ser Leu Arg His Leu Asp Leu Ser Gly Cys Glu Lys Ile
               260                 265                 270
Thr Asp Val Ala Leu Glu Lys Ile Ser Arg Ala Leu Gly Ile Leu
               275                 280                 285
Thr Ser His Gln Ser Gly Phe Leu Lys Thr Ser Thr Ser Lys Ile
               290                 295                 300
Thr Ser Thr Ala Trp Lys Asn Lys Asp Ile Thr Met Gln Ser Thr
               305                 310                 315
Lys Gln Tyr Ala Cys Leu His Asp Leu Thr Asn Lys Gly Ile Gly
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                320                 325                 330
Glu Glu Ile Asp Asn Glu His Pro Trp Thr Lys Pro Val Ser Ser
                335                 340                 345
Glu Asn Phe Thr Ser Pro Tyr Val Trp Met Leu Asp Ala Glu Asp
                350                 355                 360
Leu Ala Asp Ile Glu Asp Thr Val Glu Trp Arg His Arg Asn Val
                365                 370                 375
Glu Ser Leu Cys Val Met Glu Thr Ala Ser Asn Phe Ser Cys Ser
                380                 385                 390
Thr Ser Gly Cys Phe Ser Lys Asp Ile Val Gly Leu Arg Thr Ser
                395                 400                 405
Val Cys Trp Gln Gln His Cys Ala Ser Pro Ala Phe Ala Tyr Cys
                410                 415                 420
Gly His Ser Phe Cys Cys Thr Gly Thr Ala Leu Arg Thr Met Ser
                425                 430                 435
Ser Leu Pro Glu Ser Ser Ala Met Cys Arg Lys Ala Ala Arg Thr
                440                 445                 450
Arg Leu Pro Arg Gly Lys Asp Leu Ile Tyr Phe Gly Ser Glu Lys
                455                 460                 465
Ser Asp Gln Glu Thr Gly Arg Val Leu Leu Phe Leu Ser Leu Ser
                470                 475                 480
Gly Cys Tyr Gln Ile Thr Asp His Gly Leu Arg Val Leu Thr Leu
                485                 490                 495
Gly Gly Gly Leu Pro Tyr Leu Glu His Leu Asn Leu Ser Gly Cys
                500                 505                 510
Leu Thr Ile Thr Gly Ala Gly Leu Gln Asp Leu Val Ser Ala Cys
                515                 520                 525
Pro Ser Leu Asn Asp Glu Tyr Phe Tyr Tyr Cys Asp Asn Ile Asn
                530                 535                 540
Gly Pro His Ala Asp Thr Ala Ser Gly Cys Gln Asn Leu Gln Cys
                545                 550                 555
Gly Phe Arg Ala Cys Cys Arg Ser Gly Glu
                560                 565
<210> 35
<211> 228
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1851534CD1

<400> 35
Met Asp Phe Ser Phe Ser Phe Met Gln Gly Ile Met Gly Asn Thr
  1                 5                  10                  15
Ile Gln Gln Pro Pro Gln Leu Ile Asp Ser Ala Asn Ile Arg Gln
                 20                  25                  30
Glu Asp Ala Phe Asp Asn Asn Ser Asp Ile Ala Glu Asp Gly Gly
                 35                  40                  45
Gln Thr Pro Tyr Glu Ala Thr Leu Gln Gln Gly Phe Gln Tyr Pro
                 50                  55                  60
Ala Thr Thr Glu Asp Leu Pro Pro Leu Thr Asn Gly Tyr Pro Ser
                 65                  70                  75
Ser Ile Ser Val Tyr Glu Thr Gln Thr Lys Tyr Gln Ser Tyr Asn
                 80                  85                  90
Gln Tyr Pro Asn Gly Ser Ala Asn Gly Phe Gly Ala Val Arg Asn
                 95                 100                 105
Phe Ser Pro Thr Asp Tyr Tyr His Ser Glu Ile Pro Asn Thr Arg
                110                 115                 120
Pro His Glu Ile Leu Glu Lys Pro Ser Pro Pro Gln Pro Pro Pro
                125                 130                 135
Pro Pro Ser Val Pro Gln Thr Val Ile Pro Lys Lys Thr Gly Ser
                140                 145                 150
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Pro Glu Ile Lys Leu Lys Ile Thr Lys Thr Ile Gln Asn Gly Arg
155 160 165
Glu Leu Phe Glu Ser Ser Leu Cys Gly Asp Leu Leu Asn Glu Val
170 175 180
Gln Ala Ser Glu His Thr Lys Ser Lys His Glu Ser Arg Lys Glu
185 190 195
Lys Arg Lys Lys Ser Asn Lys His Asp Ser Ser Arg Ser Glu Glu
200 205 210
Arg Lys Ser His Lys Ile Pro Lys Leu Glu Pro Glu Glu Gln Asn
215 220 225
Met Thr Lys

<210> 36
<211> 495
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1868749CD1

<400> 36
Met Lys Gly Met Lys Val Glu Val Leu Asn Ser Asp Ala Val Leu
1 5 10 15
Pro Ser Arg Val Tyr Trp Ile Ala Ser Val Ile Gln Thr Ala Gly
20 25 30
Tyr Arg Val Leu Leu Arg Tyr Glu Gly Phe Glu Asn Asp Ala Ser
35 40 45
His Asp Phe Trp Cys Asn Leu Gly Thr Val Asp Val His Pro Ile
50 55 60
Gly Trp Cys Ala Ile Asn Ser Lys Ile Leu Val Pro Pro Arg Thr
65 70 75
Ile His Ala Lys Phe Thr Asp Trp Lys Gly Tyr Leu Met Lys Arg
80 85 90
Leu Val Gly Ser Arg Thr Leu Pro Val Asp Phe His Ile Lys Met
95 100 105
Val Glu Ser Met Lys Tyr Pro Phe Arg Gln Gly Met Arg Leu Glu
110 115 120
Val Val Asp Lys Ser Gln Val Ser Arg Thr Arg Met Ala Val Val
125 130 135
Asp Thr Val Ile Gly Gly Arg Leu Arg Leu Leu Tyr Glu Asp Gly
140 145 150
Asp Ser Asp Asp Asp Phe Trp Cys His Met Trp Ser Pro Leu Ile
155 160 165
His Pro Val Gly Trp Ser Arg Arg Val Gly His Gly Ile Lys Met
170 175 180
Ser Glu Arg Arg Ser Asp Met Ala His His Pro Thr Phe Arg Lys
185 190 195
Ile Tyr Cys Asp Ala Val Pro Tyr Leu Phe Lys Lys Val Arg Ala
200 205 210
Val Tyr Thr Glu Gly Gly Trp Phe Glu Glu Gly Met Lys Leu Glu
215 220 225
Ala Ile Asp Pro Leu Asn Leu Gly Asn Ile Cys Val Ala Thr Val
230 235 240
Cys Lys Val Leu Leu Asp Gly Tyr Leu Met Ile Cys Val Asp Gly
245 250 255
Gly Pro Ser Thr Asp Gly Leu Asp Trp Phe Cys Tyr His Ala Ser
260 265 270
Ser His Ala Ile Phe Pro Ala Thr Phe Cys Gln Lys Asn Asp Ile
275 280 285
Glu Leu Thr Pro Pro Lys Gly Tyr Glu Ala Gln Thr Phe Asn Trp
290 295 300
Glu Asn Tyr Leu Glu Lys Thr Lys Ser Lys Ala Ala Pro Ser Arg

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                305                 310                 315
Leu Phe Asn Met Asp Cys Pro Asn His Gly Phe Lys Val Gly Met
                320                 325                 330
Lys Leu Glu Ala Val Asp Leu Met Glu Pro Arg Leu Ile Cys Val
                335                 340                 345
Ala Thr Val Lys Arg Val Val His Arg Leu Leu Ser Ile His Phe
                350                 355                 360
Asp Gly Trp Asp Ser Glu Tyr Asp Gln Trp Val Asp Cys Glu Ser
                365                 370                 375
Pro Asp Ile Tyr Pro Val Gly Trp Cys Glu Leu Thr Gly Tyr Gln
                380                 385                 390
Leu Gln Pro Pro Val Ala Ala Glu Pro Ala Thr Pro Leu Lys Ala
                395                 400                 405
Lys Glu Ala Thr Lys Lys Lys Lys Lys Gln Phe Gly Lys Lys Arg
                410                 415                 420
Lys Arg Ile Pro Pro Thr Lys Thr Arg Pro Leu Arg Gln Gly Ser
                425                 430                 435
Lys Lys Pro Leu Leu Glu Asp Asp Pro Gln Gly Ala Arg Lys Ile
                440                 445                 450
Ser Ser Glu Pro Val Pro Gly Glu Ile Ile Ala Val Arg Val Lys
                455                 460                 465
Glu Glu His Leu Asp Val Ala Ser Pro Asp Lys Ala Ser Ser Pro
                470                 475                 480
Glu Leu Pro Val Ser Val Glu Asn Ile Lys Gln Glu Thr Asp Asp
                485                 490                 495

<210> 37
<211> 1336
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1980010CD1

<400> 37
Met Val Asp Gln Leu Glu Gln Ile Leu Ser Val Ser Glu Leu Leu
  1                 5                  10                  15
Glu Lys His Gly Leu Glu Lys Pro Ile Ser Phe Val Lys Asn Thr
                 20                  25                  30
Gln Ser Ser Ser Glu Glu Ala Arg Lys Leu Met Val Arg Leu Thr
                 35                  40                  45
Arg His Thr Gly Arg Lys Gln Pro Pro Val Ser Glu Ser His Trp
                 50                  55                  60
Arg Thr Leu Leu Gln Asp Met Leu Thr Met Gln Gln Asn Val Tyr
                 65                  70                  75
Thr Cys Leu Asp Ser Asp Ala Cys Tyr Glu Ile Phe Thr Glu Ser
                 80                  85                  90
Leu Leu Cys Ser Ser Arg Leu Glu Asn Ile His Leu Ala Gly Gln
                 95                 100                 105
Met Met His Cys Ser Ala Cys Ser Glu Asn Pro Pro Ala Gly Ile
                110                 115                 120
Ala His Lys Gly Asn Pro His Tyr Arg Val Ser Tyr Glu Lys Ser
                125                 130                 135
Ile Asp Leu Val Leu Ala Ala Ser Arg Glu Tyr Phe Asn Ser Ser
                140                 145                 150
Thr Asn Leu Thr Asp Ser Cys Met Asp Leu Ala Arg Cys Cys Leu
                155                 160                 165
Gln Leu Ile Thr Asp Arg Pro Pro Ala Ile Gln Glu Glu Leu Asp
                170                 175                 180
Leu Ile Gln Ala Val Gly Cys Leu Glu Glu Phe Gly Val Lys Ile
                185                 190                 195
Leu Pro Leu Gln Val Arg Leu Cys Pro Asp Arg Ile Ser Leu Ile
```

```
                200                 205                 210
Lys Glu Cys Ile Ser Gln Ser Pro Thr Cys Tyr Lys Gln Ser Thr
                215                 220                 225
Lys Leu Leu Gly Leu Ala Glu Leu Leu Arg Val Ala Gly Glu Asn
                230                 235                 240
Pro Glu Glu Arg Arg Gly Gln Val Leu Ile Leu Leu Val Glu Gln
                245                 250                 255
Ala Leu Arg Phe His Asp Tyr Lys Ala Ala Ser Met His Cys Gln
                260                 265                 270
Glu Leu Met Ala Thr Gly Tyr Pro Lys Ser Trp Asp Val Cys Ser
                275                 280                 285
Gln Leu Gly Gln Ser Glu Gly Tyr Gln Asp Leu Ala Thr Arg Gln
                290                 295                 300
Glu Leu Met Ala Phe Ala Leu Thr His Cys Pro Pro Ser Ser Ile
                305                 310                 315
Glu Leu Leu Leu Ala Ala Ser Ser Ser Leu Gln Thr Glu Ile Leu
                320                 325                 330
Tyr Gln Arg Val Asn Phe Gln Ile His His Glu Gly Gly Glu Asn
                335                 340                 345
Ile Ser Ala Ser Pro Leu Thr Ser Lys Ala Val Gln Glu Asp Glu
                350                 355                 360
Val Gly Val Pro Gly Ser Asn Ser Ala Asp Leu Leu Arg Trp Thr
                365                 370                 375
Thr Ala Thr Thr Met Lys Val Leu Ser Asn Thr Thr Thr Thr Thr
                380                 385                 390
Lys Ala Val Leu Gln Ala Val Ser Asp Gly Gln Trp Trp Lys Lys
                395                 400                 405
Ser Leu Thr Tyr Leu Arg Pro Leu Gln Gly Gln Lys Cys Gly Gly
                410                 415                 420
Ala Tyr Gln Ile Gly Thr Thr Ala Asn Glu Asp Leu Glu Lys Gln
                425                 430                 435
Gly Cys His Pro Phe Tyr Glu Ser Val Ile Ser Asn Pro Phe Val
                440                 445                 450
Ala Glu Ser Glu Gly Thr Tyr Asp Thr Tyr Gln His Val Pro Val
                455                 460                 465
Glu Ser Phe Ala Glu Val Leu Leu Arg Thr Gly Lys Leu Ala Glu
                470                 475                 480
Ala Lys Asn Lys Gly Glu Val Phe Pro Thr Thr Glu Val Leu Leu
                485                 490                 495
Gln Leu Ala Ser Glu Ala Leu Pro Asn Asp Met Thr Leu Ala Leu
                500                 505                 510
Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp Ala Asn Arg Cys
                515                 520                 525
Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln Leu Ala Ala
                530                 535                 540
Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro Cys Phe
                545                 550                 555
Arg Asp Lys Cys His Pro Leu Tyr Arg Ala Asp Pro Lys Glu Leu
                560                 565                 570
Ile Lys Met Val Thr Arg His Val Thr Arg His Glu His Glu Ala
                575                 580                 585
Trp Pro Glu Asp Leu Ile Ser Leu Thr Lys Gln Leu His Cys Tyr
                590                 595                 600
Asn Glu Arg Leu Leu Asp Phe Thr Gln Ala Gln Ile Leu Gln Gly
                605                 610                 615
Leu Arg Lys Gly Val Asp Val Gln Arg Phe Thr Ala Asp Asp Gln
                620                 625                 630
Tyr Lys Arg Glu Thr Ile Leu Gly Leu Ala Glu Thr Leu Glu Glu
                635                 640                 645
Ser Val Tyr Ser Ile Ala Ile Ser Leu Ala Gln Arg Tyr Ser Val
                650                 655                 660
Ser Arg Trp Glu Val Phe Met Thr His Leu Glu Phe Leu Phe Thr
                665                 670                 675
```

```
Asp Ser Gly Leu Ser Thr Leu Glu Ile Glu Asn Arg Ala Gln Asp
                680                 685                 690
Leu His Leu Phe Glu Thr Leu Lys Thr Asp Pro Glu Ala Phe His
                695                 700                 705
Gln His Met Val Lys Tyr Ile Tyr Pro Thr Ile Gly Gly Phe Asp
                710                 715                 720
His Glu Arg Leu Gln Tyr Tyr Phe Thr Leu Leu Glu Asn Cys Gly
                725                 730                 735
Cys Ala Asp Leu Gly Asn Cys Ala Ile Lys Pro Glu Thr His Ile
                740                 745                 750
Arg Leu Leu Lys Lys Phe Lys Val Val Ala Ser Gly Leu Asn Tyr
                755                 760                 765
Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu Ala Leu Glu
                770                 775                 780
Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys Leu Val
                785                 790                 795
Pro Lys Ile Pro Glu Lys Asp Gly Gln Met Leu Ser Pro Ser Ser
                800                 805                 810
Leu Tyr Thr Ile Trp Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro
                815                 820                 825
His Leu Ile Lys Gln Val Pro Gly Ser Ser Pro Glu Trp Leu His
                830                 835                 840
Ala Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg Leu His Pro Gly
                845                 850                 855
Asp Leu Ile Thr Val Val Asp Ala Val Thr Phe Ser Pro Lys Ala
                860                 865                 870
Val Thr Lys Leu Ser Val Glu Ala Arg Lys Glu Met Thr Arg Lys
                875                 880                 885
Ala Ile Lys Thr Val Lys His Phe Ile Glu Lys Pro Arg Lys Arg
                890                 895                 900
Asn Ser Glu Asp Glu Ala Gln Glu Ala Lys Asp Ser Lys Val Thr
                905                 910                 915
Tyr Ala Asp Thr Leu Asn His Leu Glu Lys Ser Leu Ala His Leu
                920                 925                 930
Glu Thr Leu Ser His Ser Phe Ile Leu Ser Leu Lys Asn Ser Glu
                935                 940                 945
Gln Glu Thr Leu Gln Lys Tyr Ser His Leu Tyr Asp Leu Ser Arg
                950                 955                 960
Ser Glu Lys Glu Lys Leu His Asp Glu Ala Val Ala Ile Cys Leu
                965                 970                 975
Asp Gly Gln Pro Leu Ala Met Ile Gln Gln Leu Leu Glu Val Ala
                980                 985                 990
Val Gly Pro Leu Asp Ile Ser Pro Lys Asp Ile Val Gln Ser Ala
                995                1000                1005
Ile Met Lys Ile Ile Ser Ala Leu Ser Gly Gly Ser Ala Asp Leu
               1010                1015                1020
Gly Gly Pro Arg Asp Pro Leu Lys Val Leu Glu Gly Val Val Ala
               1025                1030                1035
Ala Val His Ala Ser Val Asp Lys Gly Glu Glu Leu Val Ser Pro
               1040                1045                1050
Glu Asp Leu Leu Glu Trp Leu Arg Pro Phe Cys Ala Asp Asp Ala
               1055                1060                1065
Trp Pro Val Arg Pro Arg Ile His Val Leu Gln Ile Leu Gly Gln
               1070                1075                1080
Ser Phe His Leu Thr Glu Glu Asp Ser Lys Leu Leu Val Phe Phe
               1085                1090                1095
Arg Thr Glu Ala Ile Leu Lys Ala Ser Trp Pro Gln Arg Gln Val
               1100                1105                1110
Asp Ile Ala Asp Ile Glu Asn Glu Glu Asn Arg Tyr Cys Leu Phe
               1115                1120                1125
Met Glu Leu Leu Glu Ser Ser His His Glu Ala Glu Phe Gln His
               1130                1135                1140
Leu Val Leu Leu Leu Gln Ala Trp Pro Pro Met Lys Ser Glu Tyr
```

```
                1145                1150                1155
Val Ile Thr Asn Asn Pro Trp Val Arg Leu Ala Thr Val Met Leu
                1160                1165                1170
Thr Arg Cys Thr Met Glu Asn Lys Glu Gly Leu Gly Asn Glu Val
                1175                1180                1185
Leu Lys Met Cys Arg Ser Leu Tyr Asn Thr Lys Gln Met Leu Pro
                1190                1195                1200
Ala Glu Gly Val Lys Glu Leu Cys Leu Leu Leu Leu Asn Gln Ser
                1205                1210                1215
Leu Leu Leu Pro Ser Leu Lys Leu Leu Leu Glu Ser Arg Asp Glu
                1220                1225                1230
His Leu His Glu Met Ala Leu Glu Gln Ile Thr Ala Val Thr Thr
                1235                1240                1245
Val Asn Asp Ser Asn Cys Asp Gln Glu Leu Leu Ser Leu Leu Leu
                1250                1255                1260
Asp Ala Lys Leu Leu Val Lys Cys Val Ser Thr Pro Phe Tyr Pro
                1265                1270                1275
Arg Ile Val Asp His Leu Leu Ala Ser Leu Gln Gln Gly Arg Trp
                1280                1285                1290
Asp Ala Glu Glu Leu Gly Arg His Leu Arg Glu Ala Gly His Glu
                1295                1300                1305
Ala Glu Ala Gly Ser Leu Leu Leu Ala Val Arg Gly Thr His Gln
                1310                1315                1320
Ala Phe Arg Thr Phe Ser Thr Ala Leu Arg Ala Ala Gln His Trp
                1325                1330                1335
Val
```

<210> 38
<211> 934
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2259032CD1

<400> 38

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Met Phe Trp Lys Phe Asp Leu Asn Thr Thr Ser His Val Asp Lys
  1               5                  10                  15
Leu Leu Asp Lys Glu His Val Thr Leu Gln Glu Leu Met Asp Glu
                20                  25                  30
Asp Asp Ile Leu Gln Glu Cys Lys Ala Gln Asn Gln Lys Leu Leu
                35                  40                  45
Asp Phe Leu Cys Arg Gln Gln Cys Met Glu Glu Leu Val Ser Leu
                50                  55                  60
Ile Thr Gln Asp Pro Pro Leu Asp Met Glu Glu Lys Val Arg Phe
                65                  70                  75
Lys Tyr Pro Asn Thr Ala Cys Glu Leu Leu Thr Cys Asp Val Pro
                80                  85                  90
Gln Ile Ser Asp Arg Leu Gly Gly Asp Glu Ser Leu Leu Ser Leu
                95                 100                 105
Leu Tyr Asp Phe Leu Asp His Glu Pro Pro Leu Asn Pro Leu Leu
               110                 115                 120
Ala Ser Phe Phe Ser Lys Thr Ile Gly Asn Leu Ile Ala Arg Lys
               125                 130                 135
Thr Glu Gln Val Ile Thr Phe Leu Lys Lys Lys Asp Lys Phe Ile
               140                 145                 150
Ser Leu Val Leu Lys His Ile Gly Thr Ser Ala Leu Met Asp Leu
               155                 160                 165
Leu Leu Arg Leu Val Ser Cys Val Glu Pro Ala Gly Leu Arg Gln
               170                 175                 180
Asp Val Leu His Trp Leu Asn Glu Glu Lys Val Ile Gln Arg Leu
               185                 190                 195
```

Val Glu Leu Ile His Pro Ser Gln Asp Glu Asp Arg Gln Ser Asn
200 205 210
Ala Ser Gln Thr Leu Cys Asp Ile Val Arg Leu Gly Arg Asp Gln
215 220 225
Gly Ser Gln Leu Gln Glu Ala Leu Glu Pro Asp Pro Leu Leu Thr
230 235 240
Ala Leu Glu Ser Arg Gln Asp Cys Val Glu Gln Leu Leu Lys Asn
245 250 255
Met Phe Asp Gly Asp Arg Thr Glu Ser Cys Leu Val Ser Gly Thr
260 265 270
Gln Val Leu Leu Thr Leu Leu Glu Thr Arg Arg Val Gly Thr Glu
275 280 285
Gly Leu Val Asp Ser Phe Ser Gln Gly Leu Glu Arg Ser Tyr Ala
290 295 300
Val Ser Ser Ser Val Leu His Gly Ile Glu Pro Arg Leu Lys Asp
305 310 315
Phe His Gln Leu Leu Leu Asn Pro Pro Lys Lys Lys Ala Ile Leu
320 325 330
Thr Thr Ile Gly Val Leu Glu Glu Pro Leu Gly Asn Ala Arg Leu
335 340 345
His Gly Ala Arg Leu Met Ala Ala Leu Leu His Thr Asn Thr Pro
350 355 360
Ser Ile Asn Gln Glu Leu Cys Arg Leu Asn Thr Met Asp Leu Leu
365 370 375
Leu Asp Leu Phe Phe Lys Tyr Thr Trp Asn Asn Phe Leu His Phe
380 385 390
Gln Val Glu Leu Cys Ile Ala Ala Ile Leu Ser His Ala Ala Arg
395 400 405
Glu Glu Arg Thr Glu Ala Ser Gly Ser Glu Ser Arg Val Glu Pro
410 415 420
Pro His Glu Asn Gly Asn Arg Ser Leu Glu Thr Pro Gln Pro Ala
425 430 435
Ala Ser Leu Pro Asp Asn Thr Met Val Thr His Leu Phe Gln Lys
440 445 450
Cys Cys Leu Val Gln Arg Ile Leu Glu Ala Trp Glu Ala Asn Asp
455 460 465
His Thr Gln Ala Ala Gly Gly Met Arg Arg Gly Asn Met Gly His
470 475 480
Leu Thr Arg Ile Ala Asn Ala Val Val Gln Asn Leu Glu Arg Gly
485 490 495
Pro Val Gln Thr His Ile Ser Glu Val Ile Arg Gly Leu Pro Ala
500 505 510
Asp Cys Arg Gly Arg Trp Glu Ser Phe Val Glu Glu Thr Leu Thr
515 520 525
Glu Thr Asn Arg Arg Asn Thr Val Asp Leu Ala Phe Ser Asp Tyr
530 535 540
Gln Ile Gln Gln Met Thr Ala Asn Phe Val Asp Gln Phe Gly Phe
545 550 555
Asn Asp Glu Glu Phe Ala Asp Gln Asp Asp Asn Ile Asn Ala Pro
560 565 570
Phe Asp Arg Ile Ala Glu Ile Asn Phe Asn Ile Asp Ala Asp Glu
575 580 585
Asp Ser Pro Ser Ala Ala Leu Phe Glu Ala Cys Cys Ser Asp Arg
590 595 600
Ile Gln Pro Phe Asp Asp Asp Glu Asp Glu Asp Ile Trp Glu Asp
605 610 615
Ser Asp Thr Arg Cys Ala Ala Arg Val Met Ala Arg Pro Arg Phe
620 625 630
Gly Ala Pro His Ala Ser Glu Ser Cys Ser Lys Asn Gly Pro Glu
635 640 645
Arg Gly Gly Gln Asp Gly Lys Ala Ser Leu Glu Ala His Arg Asp
650 655 660
Ala Pro Gly Ala Gly Ala Pro Pro Ala Pro Gly Lys Lys Glu Ala

```
                665                 670                 675
Pro Pro Val Glu Gly Asp Ser Glu Ala Gly Ala Met Trp Thr Ala
                680                 685                 690
Val Phe Asp Glu Pro Ala Asn Ser Thr Pro Thr Ala Pro Gly Val
                695                 700                 705
Val Arg Asp Val Gly Ser Ser Val Trp Ala Ala Gly Thr Ser Ala
                710                 715                 720
Pro Glu Glu Lys Gly Trp Ala Lys Phe Thr Asp Phe Gln Pro Phe
                725                 730                 735
Cys Cys Ser Glu Ser Gly Pro Arg Cys Ser Ser Pro Val Asp Thr
                740                 745                 750
Glu Cys Ser His Ala Glu Gly Ser Arg Ser Gln Gly Pro Glu Lys
                755                 760                 765
Ala Phe Ser Pro Ala Ser Pro Cys Ala Trp Asn Val Cys Val Thr
                770                 775                 780
Arg Lys Ala Pro Leu Leu Ala Ser Asp Ser Ser Ser Ser Gly Gly
                785                 790                 795
Ser His Ser Glu Asp Gly Asp Gln Lys Ala Ala Ser Ala Met Asp
                800                 805                 810
Ala Val Ser Arg Gly Pro Gly Arg Glu Ala Pro Pro Leu Pro Thr
                815                 820                 825
Val Ala Arg Thr Glu Glu Ala Val Gly Arg Val Gly Cys Ala Asp
                830                 835                 840
Ser Arg Leu Leu Ser Pro Ala Cys Pro Ala Pro Lys Glu Val Thr
                845                 850                 855
Ala Ala Pro Ala Val Ala Val Pro Pro Glu Ala Thr Val Ala Ile
                860                 865                 870
Thr Thr Ala Leu Ser Lys Ala Gly Pro Ala Ile Pro Thr Pro Ala
                875                 880                 885
Val Ser Ser Ala Leu Ala Val Ala Val Pro Leu Gly Pro Ile Met
                890                 895                 900
Ala Val Thr Ala Ala Pro Ala Met Val Ala Thr Leu Gly Thr Val
                905                 910                 915
Thr Lys Asp Gly Lys Thr Asp Ala Pro Pro Glu Gly Ala Ala Leu
                920                 925                 930
Asn Gly Pro Val
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<210> 39
<211> 515
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2359526CD1

<400> 39

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Met Ala Ala Asn Met Tyr Arg Val Gly Asp Tyr Val Tyr Phe Glu
  1               5                  10                  15
Asn Ser Ser Ser Asn Pro Tyr Leu Ile Arg Arg Ile Glu Glu Leu
             20                  25                  30
Asn Lys Thr Ala Ser Gly Asn Val Glu Ala Lys Val Val Cys Phe
             35                  40                  45
Tyr Arg Arg Arg Asp Ile Ser Asn Thr Leu Ile Met Leu Ala Asp
             50                  55                  60
Lys His Ala Lys Glu Ile Glu Glu Glu Ser Glu Thr Thr Val Glu
             65                  70                  75
Ala Asp Leu Thr Asp Lys Gln Lys His Gln Leu Lys His Arg Glu
             80                  85                  90
Leu Phe Leu Ser Arg Gln Tyr Glu Ser Leu Pro Ala Thr His Ile
             95                 100                 105
Arg Gly Lys Cys Ser Val Ala Leu Leu Asn Glu Thr Glu Ser Val
            110                 115                 120
```

```
Leu Ser Tyr Leu Asp Lys Glu Asp Thr Phe Phe Tyr Ser Leu Val
                125                 130                 135
Tyr Asp Pro Ser Leu Lys Thr Leu Leu Ala Asp Lys Gly Glu Ile
            140                 145                 150
Arg Val Gly Pro Arg Tyr Gln Ala Asp Ile Pro Glu Met Leu Leu
            155                 160                 165
Glu Gly Glu Ser Asp Glu Arg Glu Gln Ser Lys Leu Glu Val Lys
            170                 175                 180
Val Trp Asp Pro Asn Ser Pro Leu Thr Asp Arg Gln Ile Asp Gln
            185                 190                 195
Phe Leu Val Val Ala Arg Ala Val Gly Thr Phe Ala Arg Ala Leu
            200                 205                 210
Asp Cys Ser Ser Ser Val Arg Gln Pro Ser Leu His Met Ser Ala
            215                 220                 225
Ala Ala Ala Ser Arg Asp Ile Thr Leu Phe His Ala Met Asp Thr
            230                 235                 240
Leu Tyr Arg His Ser Tyr Asp Leu Ser Ser Ala Ile Ser Val Leu
            245                 250                 255
Val Pro Leu Gly Gly Pro Val Leu Cys Arg Asp Glu Met Glu Glu
            260                 265                 270
Trp Ser Ala Ser Glu Ala Ser Leu Phe Glu Glu Ala Leu Glu Lys
            275                 280                 285
Tyr Gly Lys Asp Phe Asn Asp Ile Arg Gln Asp Phe Leu Pro Trp
            290                 295                 300
Lys Ser Leu Thr Ser Ile Ile Glu Tyr Tyr Tyr Met Trp Lys Thr
            305                 310                 315
Thr Asp Arg Tyr Val Gln Gln Lys Arg Leu Lys Ala Ala Glu Ala
            320                 325                 330
Glu Ser Lys Leu Lys Gln Val Tyr Ile Pro Thr Tyr Ser Lys Pro
            335                 340                 345
Asn Pro Asn Gln Ile Ser Thr Ser Asn Gly Lys Pro Gly Ala Val
            350                 355                 360
Asn Gly Ala Val Gly Thr Thr Phe Gln Pro Gln Asn Pro Leu Leu
            365                 370                 375
Gly Arg Ala Cys Glu Ser Cys Tyr Ala Thr Gln Ser His Gln Trp
            380                 385                 390
Tyr Ser Trp Gly Pro Pro Asn Met Gln Cys Arg Leu Cys Ala Ile
            395                 400                 405
Cys Trp Leu Tyr Trp Lys Lys Tyr Gly Gly Leu Lys Met Pro Thr
            410                 415                 420
Gln Ser Glu Glu Glu Lys Leu Ser Pro Ser Pro Thr Thr Glu Asp
            425                 430                 435
Pro Arg Val Arg Ser His Val Ser Arg Gln Ala Met Gln Gly Met
            440                 445                 450
Pro Val Arg Asn Thr Gly Ser Pro Lys Ser Ala Val Lys Thr Arg
            455                 460                 465
Gln Ala Phe Phe Leu His Thr Thr Tyr Phe Thr Lys Phe Ala Arg
            470                 475                 480
Gln Val Cys Lys Asn Thr Leu Arg Leu Arg Gln Ala Ala Arg Arg
            485                 490                 495
Pro Phe Val Ala Ile Asn Tyr Ala Ala Ile Arg Ala Glu Cys Lys
            500                 505                 510
Met Leu Leu Asn Ser
            515
<210> 40
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2456494CD1
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<400> 40
Met Val Asp Glu Leu Val Leu Leu Leu His Ala Leu Leu Met Arg
1 5 10 15
His Arg Ala Leu Ser Ile Glu Asn Ser Gln Leu Met Glu Gln Leu
20 25 30
Arg Leu Leu Val Cys Glu Arg Ala Ser Leu Leu Arg Gln Val Arg
35 40 45
Pro Pro Ser Cys Pro Val Pro Phe Pro Glu Thr Phe Asn Gly Glu
50 55 60
Ser Ser Arg Leu Pro Glu Phe Ile Val Gln Thr Ala Ser Tyr Met
65 70 75
Leu Val Asn Glu Asn Arg Phe Cys Asn Asp Ala Met Lys Val Ala
80 85 90
Phe Leu Ile Ser Leu Leu Thr Gly Glu Ala Glu Glu Trp Val Val
95 100 105
Pro Tyr Ile Glu Met Asp Ser Pro Ile Leu Gly Asp Tyr Arg Ala
110 115 120
Phe Leu Asp Glu Met Lys Gln Cys Phe Gly Trp Asp Asp Asp Glu
125 130 135
Asp Asp Asp Asp Glu Glu Glu Glu Asp Asp Tyr
140 145

<210> 41
<211> 580
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2668536CD1

<400> 41
Met Lys Glu Asn Lys Glu Asn Ser Ser Pro Ser Val Thr Ser Ala
1 5 10 15
Asn Leu Asp His Thr Lys Pro Cys Trp Tyr Trp Asp Lys Lys Asp
20 25 30
Leu Ala His Thr Pro Ser Gln Leu Glu Gly Leu Asp Pro Ala Thr
35 40 45
Glu Ala Arg Tyr Arg Arg Glu Gly Ala Arg Phe Ile Phe Asp Val
50 55 60
Gly Thr Arg Leu Gly Leu His Tyr Asp Thr Leu Ala Thr Gly Ile
65 70 75
Ile Tyr Phe His Arg Phe Tyr Met Phe His Ser Phe Lys Gln Phe
80 85 90
Pro Arg Tyr Val Thr Gly Ala Cys Cys Leu Phe Leu Ala Gly Lys
95 100 105
Val Glu Glu Thr Pro Lys Lys Cys Lys Asp Ile Ile Lys Thr Ala
110 115 120
Arg Ser Leu Leu Asn Asp Val Gln Phe Gly Gln Phe Gly Asp Asp
125 130 135
Pro Lys Glu Glu Val Met Val Leu Glu Arg Ile Leu Leu Gln Thr
140 145 150
Ile Lys Phe Asp Leu Gln Val Glu His Pro Tyr Gln Phe Leu Leu
155 160 165
Lys Tyr Ala Lys Gln Leu Lys Gly Asp Lys Asn Lys Ile Gln Lys
170 175 180
Leu Val Gln Met Ala Trp Thr Phe Val Asn Asp Ser Leu Cys Thr
185 190 195
Thr Leu Ser Leu Gln Trp Glu Pro Glu Ile Ile Ala Val Ala Val
200 205 210
Met Tyr Leu Ala Gly Arg Leu Cys Lys Phe Glu Ile Gln Glu Trp
215 220 225
Thr Ser Lys Pro Met Tyr Arg Arg Trp Trp Glu Gln Phe Val Gln
230 235 240

```
Asp Val Pro Val Asp Val Leu Glu Asp Ile Cys His Gln Ile Leu
                245                 250                 255
Asp Leu Tyr Ser Gln Gly Lys Gln Gln Met Pro His His Thr Pro
                260                 265                 270
His Gln Leu Gln Gln Pro Pro Ser Leu Gln Pro Thr Pro Gln Val
                275                 280                 285
Pro Gln Val Gln Gln Ser Gln Pro Ser Gln Ser Ser Glu Pro Ser
                290                 295                 300
Gln Pro Gln Gln Lys Asp Pro Gln Gln Pro Ala Gln Gln Gln Gln
                305                 310                 315
Pro Ala Gln Gln Pro Lys Lys Pro Ser Pro Gln Pro Ser Ser Pro
                320                 325                 330
Arg Gln Val Lys Arg Ala Val Val Val Ser Pro Lys Glu Glu Asn
                335                 340                 345
Lys Ala Ala Glu Pro Pro Pro Pro Lys Ile Pro Lys Ile Glu Thr
                350                 355                 360
Thr His Pro Pro Leu Pro Pro Ala His Pro Pro Pro Asp Arg Lys
                365                 370                 375
Pro Pro Leu Ala Ala Ala Leu Gly Glu Ala Glu Pro Pro Gly Pro
                380                 385                 390
Val Asp Ala Thr Asp Leu Pro Lys Val Gln Ile Pro Pro Pro Ala
                395                 400                 405
His Pro Ala Pro Val His Gln Pro Pro Pro Leu Pro His Arg Pro
                410                 415                 420
Pro Pro Pro Pro Pro Ser Ser Tyr Met Thr Gly Met Ser Thr Thr
                425                 430                 435
Ser Ser Tyr Met Ser Gly Glu Gly Tyr Gln Ser Leu Gln Ser Met
                440                 445                 450
Met Lys Thr Glu Gly Pro Ser Tyr Gly Ala Leu Pro Pro Ala Tyr
                455                 460                 465
Gly Pro Pro Ala His Leu Pro Tyr His Pro His Val Tyr Pro Pro
                470                 475                 480
Asn Pro Pro Pro Pro Pro Val Pro Pro Pro Pro Ala Ser Phe Pro
                485                 490                 495
His Leu Pro Ser His Pro Leu Leu Leu Ala Thr Pro Asn Pro His
                500                 505                 510
Pro Pro Thr Thr Pro Thr Ser His Pro His Pro His Ala Ser Arg
                515                 520                 525
Leu Pro Thr Gln Ser Pro Leu Ile Leu Leu Gln Gly Trp Ala Cys
                530                 535                 540
Arg Gln Pro Ala Thr His Leu Leu Pro Ser Pro Leu Glu Asp Ser
                545                 550                 555
Leu Leu Cys Pro Arg Pro Phe Pro His Pro Ala Cys Leu Gln Leu
                560                 565                 570
Glu Gly Leu Gly Arg Ala Ala Trp Met Arg
                575                 580
<210> 42
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2683225CD1

<400> 42
Met Ala Glu Pro Asp Tyr Ile Glu Asp Asp Asn Pro Glu Leu Ile
  1               5                  10                  15
Arg Pro Gln Lys Leu Ile Asn Pro Val Lys Thr Ser Arg Asn His
                 20                  25                  30
Gln Asp Leu His Arg Glu Leu Leu Met Asn Gln Lys Arg Gly Leu
                 35                  40                  45
Ala Pro Gln Asn Lys Pro Glu Leu Gln Lys Val Met Glu Lys Arg
```

```
                50                  55                  60
Lys Arg Asp Gln Val Ile Lys Gln Lys Glu Glu Glu Ala Gln Lys
                65                  70                  75
Lys Lys Ser Asp Leu Glu Ile Glu Leu Leu Lys Arg Gln Gln Lys
                80                  85                  90
Leu Glu Gln Leu Glu Leu Glu Lys Gln Lys Leu Gln Glu Glu Gln
                95                  100                 105
Glu Asn Ala Pro Glu Phe Val Lys Val Lys Gly Asn Leu Arg Arg
                110                 115                 120
Thr Gly Gln Glu Val Ala Gln Ala Gln Glu Ser
                125                 130
<210> 43
<211> 812
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2797839CD1

<400> 43
Met Gly Arg Lys Leu Asp Pro Thr Lys Glu Lys Arg Gly Pro Gly
  1               5                   10                  15
Arg Lys Ala Arg Lys Gln Lys Gly Ala Glu Thr Glu Leu Val Arg
                20                  25                  30
Phe Leu Pro Ala Val Ser Asp Glu Asn Ser Lys Arg Leu Ser Ser
                35                  40                  45
Arg Ala Arg Lys Arg Ala Ala Lys Arg Arg Leu Gly Ser Val Glu
                50                  55                  60
Ala Pro Lys Thr Asn Lys Ser Pro Glu Ala Lys Pro Leu Pro Gly
                65                  70                  75
Lys Leu Pro Lys Gly Ile Ser Ala Gly Ala Val Gln Thr Ala Gly
                80                  85                  90
Lys Lys Gly Pro Gln Ser Leu Phe Asn Ala Pro Arg Gly Lys Lys
                95                  100                 105
Arg Pro Ala Pro Gly Ser Asp Glu Glu Glu Glu Glu Glu Asp Ser
                110                 115                 120
Glu Glu Asp Gly Met Val Asn His Gly Asp Leu Trp Gly Ser Glu
                125                 130                 135
Asp Asp Ala Asp Thr Val Asp Asp Tyr Gly Ala Asp Ser Asn Ser
                140                 145                 150
Glu Asp Glu Glu Glu Gly Glu Ala Leu Leu Pro Ile Glu Arg Ala
                155                 160                 165
Ala Arg Lys Gln Lys Ala Arg Glu Ala Ala Ala Gly Ile Gln Trp
                170                 175                 180
Ser Glu Glu Glu Thr Glu Asp Glu Glu Glu Glu Lys Glu Val Thr
                185                 190                 195
Pro Glu Ser Gly Pro Pro Lys Val Glu Glu Ala Asp Gly Gly Leu
                200                 205                 210
Gln Ile Asn Val Asp Glu Glu Pro Phe Val Leu Pro Pro Ala Gly
                215                 220                 225
Glu Met Glu Gln Asp Ala Gln Ala Pro Asp Leu Gln Arg Val His
                230                 235                 240
Lys Arg Ile Gln Asp Ile Val Gly Ile Leu Arg Asp Phe Gly Ala
                245                 250                 255
Gln Arg Glu Glu Gly Arg Ser Arg Ser Glu Tyr Leu Asn Arg Leu
                260                 265                 270
Lys Lys Asp Leu Ala Ile Tyr Tyr Ser Tyr Gly Asp Phe Leu Leu
                275                 280                 285
Gly Lys Leu Met Asp Leu Phe Pro Leu Ser Glu Leu Val Glu Phe
                290                 295                 300
Leu Glu Ala Asn Glu Val Pro Arg Pro Val Thr Leu Arg Thr Asn
                305                 310                 315
```

Thr Leu Lys Thr Arg Arg Arg Asp Leu Ala Gln Ala Leu Ile Asn
320 325 330
Arg Gly Val Asn Leu Asp Pro Leu Gly Lys Trp Ser Lys Thr Gly
335 340 345
Leu Val Val Tyr Asp Ser Ser Val Pro Ile Gly Ala Thr Pro Glu
350 355 360
Tyr Leu Ala Gly His Tyr Met Leu Gln Gly Ala Ser Ser Met Leu
365 370 375
Pro Val Met Ala Leu Ala Pro Gln Glu His Glu Arg Ile Leu Asp
380 385 390
Met Cys Cys Ala Pro Gly Gly Lys Thr Ser Tyr Met Ala Gln Leu
395 400 405
Met Lys Asn Thr Gly Val Ile Leu Ala Asn Asp Ala Asn Ala Glu
410 415 420
Arg Leu Lys Ser Val Val Gly Asn Leu His Arg Leu Gly Val Thr
425 430 435
Asn Thr Ile Ile Ser His Tyr Asp Gly Arg Gln Phe Pro Lys Val
440 445 450
Val Gly Gly Phe Asp Arg Val Leu Leu Asp Ala Pro Cys Ser Gly
455 460 465
Thr Gly Val Ile Ser Lys Asp Pro Ala Val Lys Thr Asn Lys Asp
470 475 480
Glu Lys Asp Ile Leu Arg Cys Ala His Leu Gln Lys Glu Leu Leu
485 490 495
Leu Ser Ala Ile Asp Ser Val Asn Ala Thr Ser Lys Thr Gly Gly
500 505 510
Tyr Leu Val Tyr Cys Thr Cys Ser Ile Thr Val Glu Glu Asn Glu
515 520 525
Trp Val Val Asp Tyr Ala Leu Lys Lys Arg Asn Val Arg Leu Val
530 535 540
Pro Thr Gly Leu Asp Phe Gly Gln Glu Gly Phe Thr Arg Phe Arg
545 550 555
Glu Arg Arg Phe His Pro Ser Leu Arg Ser Thr Arg Arg Phe Tyr
560 565 570
Pro His Thr His Asn Met Asp Gly Phe Phe Ile Ala Lys Phe Lys
575 580 585
Lys Phe Ser Asn Ser Ile Pro Gln Ser Gln Thr Gly Asn Ser Glu
590 595 600
Thr Ala Thr Pro Thr Asn Val Asp Leu Pro Gln Val Ile Pro Lys
605 610 615
Ser Glu Asn Ser Ser Gln Pro Ala Lys Lys Ala Lys Gly Ala Ala
620 625 630
Lys Thr Lys Gln Gln Leu Gln Lys Gln Gln His Pro Lys Lys Ala
635 640 645
Ser Phe Gln Lys Leu Asn Gly Ile Ser Lys Gly Ala Asp Ser Glu
650 655 660
Leu Ser Thr Val Pro Ser Val Thr Lys Thr Gln Ala Ser Ser Ser
665 670 675
Phe Gln Asp Ser Ser Gln Pro Ala Gly Lys Ala Glu Gly Ile Arg
680 685 690
Glu Pro Lys Val Thr Gly Lys Leu Lys Gln Arg Ser Pro Lys Leu
695 700 705
Gln Ser Ser Lys Lys Val Ala Phe Leu Arg Gln Asn Ala Pro Pro
710 715 720
Lys Gly Thr Asp Thr Gln Thr Pro Ala Val Leu Ser Pro Ser Lys
725 730 735
Thr Gln Ala Thr Leu Lys Pro Lys Asp His His Gln Pro Leu Gly
740 745 750
Arg Ala Lys Gly Val Glu Lys Gln Gln Leu Pro Glu Gln Pro Phe
755 760 765
Glu Lys Ala Ala Phe Gln Lys Gln Asn Asp Thr Pro Lys Gly Pro
770 775 780
Gln Pro Pro Thr Val Ser Pro Ile Arg Ser Ser Arg Pro Pro Pro

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                785                 790                 795
Ala Lys Arg Lys Lys Ser Gln Ser Arg Gly Asn Ser Gln Leu Leu
                800                 805                 810
Leu Ser

<210> 44
<211> 537
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2959521CD1

<400> 44
Met Arg Gly Val Gly Ala Arg Val Tyr Ala Asp Ala Pro Ala Lys
  1               5                  10                  15
Leu Leu Leu Pro Pro Pro Ala Ala Trp Asp Leu Ala Val Arg Leu
             20                  25                  30
Arg Gly Ala Glu Ala Ala Ser Glu Arg Gln Val Tyr Ser Val Thr
             35                  40                  45
Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu
             50                  55                  60
Leu Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala
             65                  70                  75
Ser Ser Leu Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln
             80                  85                  90
Asp Leu Ile His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln
             95                 100                 105
Gln Leu Lys Ala Leu Leu Asn His Leu Asp Val Gly Val Gly Arg
            110                 115                 120
Gly Asn Val Thr Gln His Val Gln Gly His Arg Asn Leu Ser Thr
            125                 130                 135
Cys Phe Ser Ser Gly Asp Leu Phe Thr Ala His Asn Phe Ser Glu
            140                 145                 150
Gln Ser Arg Ile Gly Ser Ser Glu Leu Gln Glu Phe Cys Pro Thr
            155                 160                 165
Ile Leu Gln Gln Leu Asp Ser Arg Ala Cys Thr Ser Glu Asn Gln
            170                 175                 180
Glu Asn Glu Glu Asn Glu Gln Thr Glu Glu Gly Arg Pro Ser Ala
            185                 190                 195
Val Glu Val Trp Gly Tyr Gly Leu Leu Cys Val Thr Val Ile Ser
            200                 205                 210
Leu Cys Ser Leu Leu Gly Ala Ser Val Val Pro Phe Met Lys Lys
            215                 220                 225
Thr Phe Tyr Lys Arg Leu Leu Leu Tyr Phe Ile Ala Leu Ala Ile
            230                 235                 240
Gly Thr Leu Tyr Ser Asn Ala Leu Phe Gln Leu Ile Pro Glu Ala
            245                 250                 255
Phe Gly Phe Asn Pro Leu Glu Asp Tyr Tyr Val Ser Lys Ser Ala
            260                 265                 270
Val Val Phe Gly Gly Phe Tyr Leu Phe Phe Phe Thr Glu Lys Ile
            275                 280                 285
Leu Lys Ile Leu Leu Lys Gln Lys Asn Glu His His His Gly His
            290                 295                 300
Ser His Tyr Ala Ser Glu Ser Leu Pro Ser Lys Lys Asp Gln Glu
            305                 310                 315
Glu Gly Val Met Glu Lys Leu Gln Asn Gly Asp Leu Asp His Met
            320                 325                 330
Ile Pro Gln His Cys Ser Ser Glu Leu Asp Gly Lys Ala Pro Met
            335                 340                 345
Val Asp Glu Lys Val Ile Val Gly Ser Leu Ser Val Gln Asp Leu
            350                 355                 360
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Gln Ala Ser Gln Ser Ala Cys Tyr Trp Leu Lys Gly Val Arg Tyr
365 370 375
Ser Asp Ile Gly Thr Leu Ala Trp Met Ile Thr Leu Ser Asp Gly
380 385 390
Leu His Asn Phe Ile Asp Gly Leu Ala Ile Gly Ala Ser Phe Thr
395 400 405
Val Ser Val Phe Gln Gly Ile Ser Thr Ser Val Ala Ile Leu Cys
410 415 420
Glu Glu Phe Pro His Glu Leu Gly Asp Phe Val Ile Leu Leu Asn
425 430 435
Ala Gly Met Ser Ile Gln Gln Ala Leu Phe Phe Asn Phe Leu Ser
440 445 450
Ala Cys Cys Cys Tyr Leu Gly Leu Ala Phe Gly Ile Leu Ala Gly
455 460 465
Ser His Phe Ser Ala Asn Trp Ile Phe Ala Leu Ala Gly Gly Met
470 475 480
Phe Leu Tyr Ile Ser Leu Ala Asp Met Phe Pro Glu Met Asn Glu
485 490 495
Val Cys Gln Glu Asp Glu Arg Lys Gly Ser Ile Leu Ile Pro Phe
500 505 510
Ile Ile Gln Asn Leu Gly Leu Leu Thr Gly Phe Thr Ile Met Val
515 520 525
Val Leu Thr Met Tyr Ser Gly Gln Ile Gln Ile Gly
530 535

<210> 45
<211> 584
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3082014CD1

<400> 45
Met Leu Trp Gly Gly Arg Val Gly Leu Thr Gly Val Phe Gln Ser
1 5 10 15
Leu Ser Tyr Arg Gly Lys Cys Ser Val Thr Leu Leu Asn Glu Thr
20 25 30
Asp Ile Leu Ser Gln Tyr Leu Glu Lys Glu Asp Cys Phe Phe Tyr
35 40 45
Ser Leu Val Phe Asp Pro Val Gln Lys Thr Leu Leu Ala Asp Gln
50 55 60
Gly Glu Ile Arg Val Gly Cys Lys Tyr Gln Ala Glu Ile Pro Asp
65 70 75
Arg Leu Val Glu Gly Glu Ser Asp Asn Arg Asn Gln Gln Lys Met
80 85 90
Glu Met Lys Val Trp Asp Pro Asp Asn Pro Leu Thr Asp Arg Gln
95 100 105
Ile Asp Gln Phe Leu Val Val Ala Arg Ala Val Gly Thr Phe Ala
110 115 120
Arg Ala Leu Asp Cys Ser Ser Ser Ile Arg Gln Pro Ser Leu His
125 130 135
Met Ser Ala Ala Ala Ala Ser Arg Asp Ile Thr Leu Phe His Ala
140 145 150
Met Asp Thr Leu Gln Arg Asn Gly Tyr Asp Leu Ala Lys Ala Met
155 160 165
Ser Thr Leu Val Pro Gln Gly Gly Pro Val Leu Cys Arg Asp Glu
170 175 180
Met Glu Glu Trp Ser Ala Ser Glu Ala Met Leu Phe Glu Glu Ala
185 190 195
Leu Glu Lys Tyr Gly Lys Asp Phe Asn Asp Ile Arg Gln Asp Phe
200 205 210
Leu Pro Trp Lys Ser Leu Ala Ser Ile Val Gln Phe Tyr Tyr Met

215 220 225
Trp Lys Thr Thr Asp Arg Tyr Ile Gln Gln Lys Arg Leu Lys Ala
230 235 240
Ala Glu Ala Asp Ser Lys Leu Lys Gln Val Tyr Ile Pro Thr Tyr
245 250 255
Thr Lys Pro Asn Pro Asn Gln Ile Ile Ser Val Gly Ser Lys Pro
260 265 270
Gly Met Asn Gly Ala Gly Phe Gln Lys Gly Leu Thr Cys Glu Ser
275 280 285
Cys His Thr Thr Gln Ser Ala Gln Trp Tyr Ala Trp Gly Pro Pro
290 295 300
Asn Met Gln Cys Arg Leu Cys Ala Ser Cys Trp Ile Tyr Trp Lys
305 310 315
Lys Tyr Gly Gly Leu Lys Thr Pro Thr Gln Leu Glu Gly Ala Thr
320 325 330
Arg Gly Thr Thr Glu Pro His Ser Arg Gly His Leu Ser Arg Pro
335 340 345
Glu Ala Gln Ser Leu Ser Pro Tyr Thr Thr Ser Ala Asn Arg Ala
350 355 360
Lys Leu Leu Ala Lys Asn Arg Gln Thr Phe Leu Leu Gln Thr Thr
365 370 375
Lys Leu Thr Arg Leu Ala Arg Arg Met Cys Arg Asp Leu Leu Gln
380 385 390
Pro Arg Arg Ala Ala Arg Arg Pro Tyr Ala Pro Ile Asn Ala Asn
395 400 405
Ala Ile Lys Ala Glu Cys Ser Ile Arg Leu Pro Lys Ala Ala Lys
410 415 420
Thr Pro Leu Lys Ile His Pro Leu Val Arg Leu Pro Leu Ala Thr
425 430 435
Ile Val Lys Asp Leu Val Ala Gln Ala Pro Leu Lys Pro Lys Thr
440 445 450
Pro Arg Gly Thr Lys Thr Pro Ile Asn Arg Asn Gln Leu Ser Gln
455 460 465
Asn Arg Gly Leu Gly Gly Ile Met Val Lys Arg Ala Tyr Glu Thr
470 475 480
Met Ala Gly Ala Gly Val Pro Phe Ser Ala Asn Gly Arg Pro Leu
485 490 495
Ala Ser Gly Ile Arg Ser Ser Ser Gln Pro Ala Ala Lys Arg Gln
500 505 510
Lys Leu Asn Pro Ala Asp Ala Pro Asn Pro Val Val Phe Val Ala
515 520 525
Thr Lys Asp Thr Arg Ala Leu Arg Lys Ala Leu Thr His Leu Glu
530 535 540
Met Arg Arg Ala Ala Arg Arg Pro Asn Leu Pro Leu Lys Val Lys
545 550 555
Pro Thr Leu Ile Ala Val Arg Pro Pro Val Pro Leu Pro Ala Pro
560 565 570
Ser His Pro Ala Ser Thr Asn Glu Pro Ile Val Leu Glu Asp
575 580

<210> 46
<211> 425
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3520701CD1

<400> 46
Met Ala Gly Ala Glu Gly Ala Ala Gly Arg Gln Ser Glu Leu Glu
1 5 10 15
Pro Val Val Ser Leu Val Asp Val Leu Glu Glu Asp Glu Glu Leu
20 25 30

Glu Asn Glu Ala Cys Ala Val Leu Gly Gly Ser Asp Ser Glu Lys
35 40 45
Cys Ser Tyr Ser Gln Gly Ser Val Lys Arg Gln Ala Leu Tyr Ala
50 55 60
Cys Ser Thr Cys Thr Pro Glu Gly Glu Glu Pro Ala Gly Ile Cys
65 70 75
Leu Ala Cys Ser Tyr Glu Cys His Gly Ser His Lys Leu Phe Glu
80 85 90
Leu Tyr Thr Lys Arg Asn Phe Arg Cys Asp Cys Gly Asn Ser Lys
95 100 105
Phe Lys Asn Leu Glu Cys Lys Leu Leu Pro Asp Lys Ala Lys Val
110 115 120
Asn Ser Gly Asn Lys Tyr Asn Asp Asn Phe Phe Gly Leu Tyr Cys
125 130 135
Ile Cys Lys Arg Pro Tyr Pro Asp Pro Glu Asp Glu Ile Pro Asp
140 145 150
Glu Met Ile Gln Cys Val Val Cys Glu Asp Trp Phe His Gly Arg
155 160 165
His Leu Gly Ala Ile Pro Pro Glu Ser Gly Asp Phe Gln Glu Met
170 175 180
Val Cys Gln Ala Cys Met Lys Arg Cys Ser Phe Leu Trp Ala Tyr
185 190 195
Ala Ala Gln Leu Ala Val Thr Lys Ile Ser Thr Glu Asp Asp Gly
200 205 210
Leu Val Arg Asn Ile Asp Gly Ile Gly Asp Gln Glu Val Ile Lys
215 220 225
Pro Glu Asn Gly Glu His Gln Asp Ser Thr Leu Lys Glu Asp Val
230 235 240
Pro Glu Gln Gly Lys Asp Asp Val Arg Glu Val Lys Val Glu Gln
245 250 255
Asn Ser Glu Pro Cys Ala Gly Ser Ser Ser Glu Ser Asp Leu Gln
260 265 270
Thr Val Phe Lys Asn Glu Ser Leu Asn Ala Glu Ser Lys Ser Gly
275 280 285
Cys Lys Leu Gln Glu Leu Lys Ala Lys Gln Leu Ile Lys Lys Asp
290 295 300
Thr Ala Thr Tyr Trp Pro Leu Asn Trp Arg Ser Lys Leu Cys Thr
305 310 315
Cys Gln Asp Cys Met Lys Met Tyr Gly Asp Leu Asp Val Leu Phe
320 325 330
Leu Thr Asp Glu Tyr Asp Thr Val Leu Ala Tyr Glu Asn Lys Gly
335 340 345
Lys Ile Ala Gln Ala Thr Asp Arg Ser Asp Pro Leu Met Asp Thr
350 355 360
Leu Ser Ser Met Asn Arg Val Gln Gln Val Glu Leu Ile Cys Glu
365 370 375
Tyr Asn Asp Leu Lys Thr Glu Leu Lys Asp Tyr Leu Lys Arg Phe
380 385 390
Ala Asp Glu Gly Thr Val Val Lys Arg Glu Asp Ile Gln Gln Phe
395 400 405
Phe Glu Glu Phe Gln Ser Lys Lys Arg Arg Arg Val Asp Gly Met
410 415 420
Gln Tyr Tyr Cys Ser
425

<210> 47
<211> 255
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4184320CD1

<400> 47
Met Tyr Val Arg Val Ser Phe Asp Thr Lys Pro Asp Leu Leu Leu
1 5 10 15
His Leu Met Thr Lys Glu Trp Gln Leu Glu Leu Pro Lys Leu Leu
20 25 30
Ile Ser Val His Gly Gly Leu Gln Asn Phe Glu Leu Gln Pro Lys
35 40 45
Leu Lys Gln Val Phe Gly Lys Gly Leu Ile Lys Ala Ala Met Thr
50 55 60
Thr Gly Ala Trp Ile Phe Thr Gly Gly Val Asn Thr Gly Val Ile
65 70 75
Arg His Val Gly Asp Ala Leu Lys Asp His Ala Ser Lys Ser Arg
80 85 90
Gly Lys Ile Cys Thr Ile Gly Ile Ala Pro Trp Gly Ile Val Glu
95 100 105
Asn Gln Glu Asp Leu Ile Gly Arg Asp Val Val Arg Pro Tyr Gln
110 115 120
Thr Met Ser Asn Pro Met Ser Lys Leu Thr Val Leu Asn Ser Met
125 130 135
His Ser His Phe Ile Leu Ala Asp Asn Gly Thr Thr Gly Lys Tyr
140 145 150
Gly Ala Glu Val Lys Leu Arg Arg Gln Leu Glu Lys His Ile Ser
155 160 165
Leu Gln Lys Ile Asn Thr Arg Cys Leu Pro Phe Phe Ser Leu Asp
170 175 180
Ser Arg Leu Phe Tyr Ser Phe Trp Gly Ser Cys Gln Leu Asp Ser
185 190 195
Val Gly Ile Gly Gln Gly Val Pro Val Val Ala Leu Ile Val Glu
200 205 210
Gly Gly Pro Asn Val Ile Ser Ile Val Leu Glu Tyr Leu Arg Asp
215 220 225
Thr Pro Pro Val Pro Val Val Val Cys Asp Gly Ser Gly Arg Ala
230 235 240
Ser Asp Ile Leu Ala Phe Gly His Lys Tyr Ser Glu Glu Gly Gly
245 250 255

<210> 48
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4764233CD1

<400> 48
Met Ser Trp Arg Gly Arg Ser Thr Tyr Arg Pro Arg Pro Arg Arg
1 5 10 15
Ser Leu Gln Pro Pro Glu Leu Ile Gly Ala Met Leu Glu Pro Thr
20 25 30
Asp Glu Glu Pro Lys Glu Glu Lys Pro Pro Thr Lys Ser Arg Asn
35 40 45
Pro Thr Pro Asp Gln Lys Arg Glu Asp Asp Gln Gly Ala Ala Glu
50 55 60
Ile Gln Val Pro Asp Leu Glu Ala Asp Leu Gln Glu Leu Cys Gln
65 70 75
Thr Lys Thr Gly Asp Gly Cys Glu Gly Gly Thr Asp Val Lys Gly
80 85 90
Lys Ile Leu Pro Lys Ala Glu His Phe Lys Met Pro Glu Ala Gly
95 100 105
Glu Gly Lys Ser Gln Val
110

<210> 49

<211> 422
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4817352CD1

<400> 49

Met	Gly	Lys	Ala	Lys	Val	Pro	Ala	Ser	Lys	Arg	Ala	Pro	Ser	Ser	
1				5					10						15
Pro	Val	Ala	Lys	Pro	Gly	Pro	Val	Lys	Thr	Leu	Thr	Arg	Lys	Lys	
				20					25						30
Asn	Lys	Lys	Lys	Lys	Arg	Phe	Trp	Lys	Ser	Lys	Ala	Arg	Glu	Val	
				35					40						45
Ser	Lys	Lys	Pro	Ala	Ser	Gly	Pro	Gly	Ala	Val	Val	Arg	Pro	Pro	
				50					55						60
Lys	Ala	Pro	Glu	Asp	Phe	Ser	Gln	Asn	Trp	Lys	Ala	Leu	Gln	Glu	
				65					70						75
Trp	Leu	Leu	Lys	Gln	Lys	Ser	Gln	Ala	Pro	Glu	Lys	Pro	Leu	Val	
				80					85						90
Ile	Ser	Gln	Met	Gly	Ser	Lys	Lys	Lys	Pro	Lys	Ile	Ile	Gln	Gln	
				95					100						105
Asn	Lys	Lys	Glu	Thr	Ser	Pro	Gln	Val	Lys	Gly	Glu	Glu	Met	Pro	
				110					115						120
Ala	Gly	Lys	Asp	Gln	Glu	Ala	Ser	Arg	Gly	Ser	Val	Pro	Ser	Gly	
				125					130						135
Ser	Lys	Met	Asp	Arg	Arg	Ala	Pro	Val	Pro	Arg	Thr	Lys	Ala	Ser	
				140					145						150
Gly	Thr	Glu	His	Asn	Lys	Lys	Gly	Thr	Lys	Glu	Arg	Thr	Asn	Gly	
				155					160						165
Asp	Ile	Val	Pro	Glu	Arg	Gly	Asp	Ile	Glu	His	Lys	Lys	Arg	Lys	
				170					175						180
Ala	Lys	Glu	Ala	Ala	Pro	Ala	Pro	Pro	Thr	Glu	Glu	Asp	Ile	Trp	
				185					190						195
Phe	Asp	Asp	Val	Asp	Pro	Ala	Asp	Ile	Glu	Ala	Ala	Ile	Gly	Pro	
				200					205						210
Glu	Ala	Ala	Lys	Ile	Ala	Arg	Lys	Gln	Leu	Gly	Gln	Ser	Glu	Gly	
				215					220						225
Ser	Val	Ser	Leu	Ser	Leu	Val	Lys	Glu	Gln	Ala	Phe	Gly	Gly	Leu	
				230					235						240
Thr	Arg	Ala	Leu	Ala	Leu	Asp	Cys	Glu	Met	Val	Gly	Val	Gly	Pro	
				245					250						255
Lys	Gly	Glu	Glu	Ser	Met	Ala	Ala	Arg	Val	Ser	Ile	Val	Asn	Gln	
				260					265						270
Tyr	Gly	Lys	Cys	Val	Tyr	Asp	Lys	Tyr	Val	Lys	Pro	Thr	Glu	Pro	
				275					280						285
Val	Thr	Asp	Tyr	Arg	Thr	Ala	Val	Ser	Gly	Ile	Arg	Pro	Glu	Asn	
				290					295						300
Leu	Lys	Gln	Gly	Glu	Glu	Leu	Glu	Val	Val	Gln	Lys	Glu	Val	Ala	
				305					310						315
Glu	Met	Leu	Lys	Gly	Arg	Ile	Leu	Val	Gly	His	Ala	Leu	His	Asn	
				320					325						330
Asp	Leu	Lys	Val	Leu	Phe	Leu	Asp	His	Pro	Lys	Lys	Lys	Ile	Arg	
				335					340						345
Asp	Thr	Gln	Lys	Tyr	Lys	Pro	Phe	Lys	Ser	Gln	Val	Lys	Ser	Gly	
				350					355						360
Arg	Pro	Ser	Leu	Arg	Leu	Leu	Ser	Glu	Lys	Ile	Leu	Gly	Leu	Gln	
				365					370						375
Val	Gln	Gln	Ala	Glu	His	Cys	Ser	Ile	Gln	Asp	Ala	Gln	Ala	Ala	
				380					385						390
Met	Arg	Leu	Tyr	Val	Met	Val	Lys	Lys	Glu	Trp	Glu	Ser	Met	Ala	
				395					400						405

Arg Asp Arg Arg Pro Leu Leu Thr Ala Pro Asp His Cys Ser Asp
410 415 420
Asp Ala

<210> 50
<211> 397
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5040573CD1

<400> 50
Met Ala Met Ile Glu Leu Gly Phe Gly Arg Gln Asn Phe His Pro
1 5 10 15
Leu Lys Arg Lys Ser Ser Leu Leu Leu Lys Leu Ile Ala Val Val
20 25 30
Phe Ala Val Leu Leu Phe Cys Glu Phe Leu Ile Tyr Tyr Leu Ala
35 40 45
Ile Phe Gln Cys Asn Trp Pro Glu Val Lys Thr Thr Ala Ser Asp
50 55 60
Gly Glu Gln Thr Thr Arg Glu Pro Val Leu Lys Ala Met Phe Leu
65 70 75
Ala Asp Thr His Leu Leu Gly Glu Phe Leu Gly His Trp Leu Asp
80 85 90
Lys Leu Arg Arg Glu Trp Gln Met Glu Arg Ala Phe Gln Thr Ala
95 100 105
Leu Trp Leu Leu Gln Pro Glu Val Val Phe Ile Leu Gly Asp Ile
110 115 120
Phe Asp Glu Gly Lys Trp Ser Thr Pro Glu Ala Trp Ala Asp Asp
125 130 135
Val Glu Arg Phe Gln Lys Met Phe Arg His Pro Ser His Val Gln
140 145 150
Leu Lys Val Val Ala Gly Asn His Asp Ile Gly Phe His Tyr Glu
155 160 165
Met Asn Thr Tyr Lys Val Glu Arg Phe Glu Lys Val Phe Ser Ser
170 175 180
Glu Arg Leu Phe Ser Trp Lys Gly Ile Asn Phe Val Met Val Asn
185 190 195
Ser Val Ala Leu Asn Gly Asp Gly Cys Gly Ile Cys Ser Glu Thr
200 205 210
Glu Ala Glu Leu Ile Glu Val Ser His Arg Leu Asn Cys Ser Arg
215 220 225
Glu Gln Ala Arg Gly Ser Ser Arg Cys Gly Pro Gly Pro Leu Leu
230 235 240
Pro Thr Ser Ala Pro Val Leu Leu Gln His Tyr Pro Leu Tyr Arg
245 250 255
Arg Ser Asp Ala Asn Cys Ser Gly Glu Asp Ala Ala Pro Pro Glu
260 265 270
Glu Arg Asp Ile Pro Phe Lys Glu Asn Tyr Asp Val Leu Ser Arg
275 280 285
Glu Ala Ser Gln Lys Leu Leu Trp Trp Leu Gln Pro Arg Leu Val
290 295 300
Leu Ser Gly His Thr His Ser Ala Cys Glu Val His His Gly Gly
305 310 315
Arg Val Pro Glu Leu Ser Val Pro Ser Phe Ser Trp Arg Asn Arg
320 325 330
Asn Asn Pro Ser Phe Ile Met Gly Ser Ile Thr Pro Thr Asp Tyr
335 340 345
Thr Leu Ser Lys Cys Tyr Leu Pro Arg Glu Asp Val Val Leu Ile
350 355 360
Ile Tyr Cys Gly Val Val Gly Phe Leu Val Val Leu Thr Leu Thr

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                365                 370                 375
His Phe Gly Leu Leu Ala Ser Pro Phe Leu Ser Gly Leu Asn Leu
                380                 385                 390
Leu Gly Lys Arg Lys Thr Arg
                395
<210> 51
<211> 800
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5627029CD1

<400> 51
Met Gly Ser Ser Lys Lys His Arg Gly Glu Lys Glu Ala Ala Gly
  1               5                  10                  15
Thr Thr Ala Ala Ala Gly Thr Gly Gly Ala Thr Glu Gln Pro Pro
             20                  25                  30
Arg His Arg Glu His Lys Lys His Lys His Arg Ser Gly Gly Ser
             35                  40                  45
Gly Gly Ser Gly Gly Glu Arg Arg Lys Arg Ser Arg Glu Arg Gly
             50                  55                  60
Gly Glu Arg Gly Ser Gly Arg Arg Gly Ala Glu Ala Glu Ala Arg
             65                  70                  75
Ser Ser Thr His Gly Arg Glu Arg Ser Gln Ala Glu Pro Ser Glu
             80                  85                  90
Arg Arg Val Lys Arg Glu Lys Arg Asp Asp Gly Tyr Glu Ala Ala
             95                 100                 105
Ala Ser Ser Lys Thr Ser Ser Gly Asp Ala Ser Ser Leu Ser Ile
            110                 115                 120
Glu Glu Thr Asn Lys Leu Arg Ala Lys Leu Gly Leu Lys Pro Leu
            125                 130                 135
Glu Val Asn Ala Ile Lys Lys Glu Ala Gly Thr Lys Glu Glu Pro
            140                 145                 150
Val Thr Ala Asp Val Ile Asn Pro Met Ala Leu Arg Gln Arg Glu
            155                 160                 165
Glu Leu Arg Glu Lys Leu Ala Ala Ala Lys Glu Lys Arg Leu Leu
            170                 175                 180
Asn Gln Lys Leu Gly Lys Ile Lys Thr Leu Gly Glu Asp Asp Pro
            185                 190                 195
Trp Leu Asp Asp Thr Ala Ala Trp Ile Glu Arg Ser Arg Gln Leu
            200                 205                 210
Gln Lys Glu Lys Asp Leu Ala Glu Lys Arg Ala Lys Leu Leu Glu
            215                 220                 225
Glu Met Asp Gln Glu Phe Gly Val Ser Thr Leu Val Glu Glu Glu
            230                 235                 240
Phe Gly Gln Arg Arg Gln Asp Leu Tyr Ser Ala Arg Asp Leu Gln
            245                 250                 255
Gly Leu Thr Val Glu His Ala Ile Asp Ser Phe Arg Glu Gly Glu
            260                 265                 270
Thr Met Ile Leu Thr Leu Lys Asp Lys Gly Val Leu Gln Glu Glu
            275                 280                 285
Glu Asp Val Leu Val Asn Val Asn Leu Val Asp Lys Glu Arg Ala
            290                 295                 300
Glu Lys Asn Val Glu Leu Arg Lys Lys Lys Pro Asp Tyr Leu Pro
            305                 310                 315
Tyr Ala Glu Asp Glu Ser Val Asp Asp Leu Ala Gln Gln Lys Pro
            320                 325                 330
Arg Ser Ile Leu Ser Lys Tyr Asp Glu Glu Leu Glu Gly Glu Arg
            335                 340                 345
Pro His Ser Phe Arg Leu Glu Gln Gly Gly Thr Ala Asp Gly Leu
            350                 355                 360
```

Arg Glu Arg Glu Leu Glu Glu Ile Arg Ala Lys Leu Arg Leu Gln
365 370 375
Ala Gln Ser Leu Ser Thr Val Gly Pro Arg Leu Ala Ser Glu Tyr
380 385 390
Leu Thr Pro Glu Glu Met Val Thr Phe Lys Lys Thr Lys Arg Arg
395 400 405
Val Lys Lys Ile Arg Lys Lys Glu Lys Glu Val Val Val Arg Ala
410 415 420
Asp Asp Leu Leu Pro Leu Gly Asp Gln Thr Gln Asp Gly Asp Phe
425 430 435
Gly Ser Arg Leu Arg Gly Arg Gly Arg Arg Arg Val Ser Glu Val
440 445 450
Glu Glu Glu Lys Glu Pro Val Pro Gln Pro Leu Pro Ser Asp Asp
455 460 465
Thr Arg Val Glu Asn Met Asp Ile Ser Asp Glu Glu Glu Gly Gly
470 475 480
Ala Pro Pro Pro Ala Ser Pro Gln Val Leu Glu Glu Asp Glu Ala
485 490 495
Glu Leu Glu Leu Gln Lys Gln Leu Glu Lys Gly Arg Arg Leu Arg
500 505 510
Gln Leu Gln Gln Leu Gln Gln Leu Arg Asp Ser Gly Glu Lys Val
515 520 525
Val Glu Ile Val Lys Lys Leu Glu Ser Arg Gln Arg Gly Trp Glu
530 535 540
Glu Asp Glu Asp Pro Glu Arg Lys Gly Ala Ile Val Phe Asn Ala
545 550 555
Thr Ser Glu Phe Cys Arg Thr Leu Gly Glu Ile Pro Thr Tyr Gly
560 565 570
Leu Ala Gly Asn Arg Glu Glu Gln Glu Glu Leu Met Asp Phe Glu
575 580 585
Arg Asp Glu Glu Arg Ser Ala Asn Gly Gly Ser Glu Ser Asp Gly
590 595 600
Glu Glu Asn Ile Gly Trp Ser Thr Val Asn Leu Asp Glu Glu Lys
605 610 615
Gln Gln Gln Asp Phe Ser Ala Ser Ser Thr Thr Ile Leu Asp Glu
620 625 630
Glu Pro Ile Val Asn Arg Gly Leu Ala Ala Ala Leu Leu Leu Cys
635 640 645
Gln Asn Lys Gly Leu Leu Glu Thr Thr Val Gln Lys Val Ala Arg
650 655 660
Val Lys Ala Pro Asn Lys Ser Leu Pro Ser Ala Val Tyr Cys Ile
665 670 675
Glu Asp Lys Met Ala Ile Asp Asp Lys Tyr Ser Arg Arg Glu Glu
680 685 690
Tyr Arg Gly Phe Thr Gln Asp Phe Lys Glu Lys Asp Gly Tyr Lys
695 700 705
Pro Asp Val Lys Ile Glu Tyr Val Asp Glu Thr Gly Arg Lys Leu
710 715 720
Thr Pro Lys Glu Ala Phe Arg Gln Leu Ser His Arg Phe His Gly
725 730 735
Lys Gly Ser Gly Lys Met Lys Thr Glu Arg Arg Met Lys Lys Leu
740 745 750
Asp Glu Glu Ala Leu Leu Lys Lys Met Ser Ser Ser Asp Thr Pro
755 760 765
Leu Gly Thr Val Ala Leu Leu Gln Glu Lys Gln Lys Ala Gln Lys
770 775 780
Thr Pro Tyr Ile Val Leu Ser Gly Ser Gly Lys Ser Met Asn Ala
785 790 795
Asn Thr Ile Thr Lys
800

<210> 52
<211> 713
<212> PRT

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5678487CD1

<400> 52

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Met Ala Lys Ser Pro Glu Asn Ser Thr Leu Glu Glu Ile Leu Gly
  1               5                  10                  15
Gln Tyr Gln Arg Ser Leu Arg Glu His Ala Ser Arg Ser Ile His
             20                  25                  30
Gln Leu Thr Cys Ala Leu Lys Glu Gly Asp Val Thr Ile Gly Glu
             35                  40                  45
Asp Ala Pro Asn Leu Ser Phe Ser Thr Ser Val Gly Asn Glu Asp
             50                  55                  60
Ala Arg Thr Ala Trp Pro Glu Leu Gln Gln Ser His Ala Val Asn
             65                  70                  75
Gln Leu Lys Asp Leu Leu Arg Gln Gln Ala Asp Lys Glu Ser Glu
             80                  85                  90
Val Ser Pro Ser Arg Arg Arg Lys Met Ser Pro Leu Arg Ser Leu
             95                 100                 105
Glu His Glu Glu Thr Asn Met Pro Thr Met His Asp Leu Val His
            110                 115                 120
Thr Ile Asn Asp Gln Ser Gln Tyr Ile His His Leu Glu Ala Glu
            125                 130                 135
Val Lys Phe Cys Lys Glu Glu Leu Ser Gly Met Lys Asn Lys Ile
            140                 145                 150
Gln Val Val Val Leu Glu Asn Glu Gly Leu Gln Gln Gln Leu Lys
            155                 160                 165
Ser Gln Arg Gln Glu Glu Thr Leu Arg Glu Gln Thr Leu Leu Asp
            170                 175                 180
Ala Ser Gly Asn Met His Asn Ser Trp Ile Thr Thr Gly Glu Asp
            185                 190                 195
Ser Gly Val Gly Glu Thr Ser Lys Arg Pro Phe Ser His Asp Asn
            200                 205                 210
Ala Asp Phe Gly Lys Ala Ala Ser Ala Gly Glu Gln Leu Glu Leu
            215                 220                 225
Glu Lys Leu Lys Leu Thr Tyr Glu Glu Lys Cys Glu Ile Glu Glu
            230                 235                 240
Ser Gln Leu Lys Phe Leu Arg Asn Asp Leu Ala Glu Tyr Gln Arg
            245                 250                 255
Thr Cys Glu Asp Leu Lys Glu Gln Leu Lys His Lys Glu Phe Leu
            260                 265                 270
Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu Lys
            275                 280                 285
Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val
            290                 295                 300
His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu
            305                 310                 315
Met Ser Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln
            320                 325                 330
Gln Arg Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln
            335                 340                 345
Ile Ser Glu Glu Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln
            350                 355                 360
Cys Asp Gln Leu Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu
            365                 370                 375
Glu Lys Asp Leu Ala Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys
            380                 385                 390
Asp Met Met Lys Lys Glu Ile Thr Lys Glu Arg Glu Tyr Met Gly
            395                 400                 405
Ser Lys Met Leu Ile Leu Ser Gln Asn Ile Ala Gln Leu Glu Ala
            410                 415                 420
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Gln Val Glu Lys Val Thr Lys Glu Lys Ile Ser Ala Ile Asn Gln
                425                 430                 435
Leu Glu Glu Ile Gln Ser Gln Leu Ala Ser Arg Glu Met Asp Val
                440                 445                 450
Thr Lys Val Cys Gly Glu Met Arg Tyr Gln Leu Asn Lys Thr Asn
                455                 460                 465
Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg Glu Phe Arg Ala
                470                 475                 480
Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu Ile Glu Lys
                485                 490                 495
Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu Gln Glu
                500                 505                 510
Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu Thr
                515                 520                 525
Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Gln
                530                 535                 540
Glu Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala
                545                 550                 555
Gln Ala Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys
                560                 565                 570
Ile Gln Gln Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln
                575                 580                 585
Tyr Leu Leu Leu Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys
                590                 595                 600
Glu Glu Cys Cys Thr Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln
                605                 610                 615
Lys Thr Arg Ser Glu Ile Ala Gln Leu Ser Gln Glu Lys Arg Tyr
                620                 625                 630
Thr Tyr Asp Lys Leu Gly Lys Leu Gln Arg Arg Asn Glu Glu Leu
                635                 640                 645
Glu Glu Gln Cys Val Gln His Gly Arg Val His Glu Thr Met Lys
                650                 655                 660
Gln Arg Leu Arg Gln Leu Asp Lys His Ser Gln Ala Thr Ala Gln
                665                 670                 675
Gln Leu Val Gln Leu Leu Ser Lys Gln Asn Gln Leu Leu Leu Glu
                680                 685                 690
Arg Gln Ser Leu Ser Glu Glu Val Asp Arg Leu Arg Thr Gln Leu
                695                 700                 705
Pro Ser Met Pro Gln Ser Asp Cys
                710
<210> 53
<211> 880
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5682976CD1

<400> 53
Met Ser Arg Gly Gly Ser Cys Pro His Leu Leu Trp Asp Val Arg
  1                 5                  10                  15
Lys Arg Ser Leu Gly Leu Glu Asp Pro Ser Arg Leu Arg Ser Arg
                 20                  25                  30
Tyr Leu Gly Arg Arg Glu Phe Ile Gln Arg Leu Lys Leu Glu Ala
                 35                  40                  45
Thr Leu Asn Val His Asp Gly Cys Val Asn Thr Ile Cys Trp Asn
                 50                  55                  60
Asp Thr Gly Glu Tyr Ile Leu Ser Gly Ser Asp Asp Thr Lys Leu
                 65                  70                  75
Val Ile Ser Asn Pro Tyr Ser Arg Lys Val Leu Thr Thr Ile Arg
                 80                  85                  90
Ser Gly His Arg Ala Asn Ile Phe Ser Ala Lys Phe Leu Pro Cys
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                95                  100                 105
Thr Asn Asp Lys Gln Ile Val Ser Cys Ser Gly Asp Gly Val Ile
            110                 115                 120
Phe Tyr Thr Asn Val Glu Gln Asp Ala Glu Thr Asn Arg Gln Cys
            125                 130                 135
Gln Phe Thr Cys His Tyr Gly Thr Thr Tyr Glu Ile Met Thr Val
            140                 145                 150
Pro Asn Asp Pro Tyr Thr Phe Leu Ser Cys Gly Glu Asp Gly Thr
            155                 160                 165
Val Arg Trp Phe Asp Thr Arg Ile Lys Thr Ser Cys Thr Lys Glu
            170                 175                 180
Asp Cys Lys Asp Asp Ile Leu Ile Asn Cys Arg Arg Ala Ala Thr
            185                 190                 195
Ser Val Ala Ile Cys Pro Pro Ile Pro Tyr Tyr Leu Ala Val Gly
            200                 205                 210
Cys Ser Asp Ser Ser Val Arg Ile Tyr Asp Arg Arg Met Leu Gly
            215                 220                 225
Thr Arg Ala Thr Gly Asn Tyr Ala Gly Arg Gly Thr Thr Gly Met
            230                 235                 240
Val Ala Arg Phe Ile Pro Ser His Leu Asn Asn Lys Ser Cys Arg
            245                 250                 255
Val Thr Ser Leu Cys Tyr Ser Glu Asp Gly Gln Glu Ile Leu Val
            260                 265                 270
Ser Tyr Ser Ser Asp Tyr Ile Tyr Leu Phe Asp Pro Lys Asp Asp
            275                 280                 285
Thr Ala Arg Glu Leu Lys Thr Pro Ser Ala Glu Glu Arg Arg Glu
            290                 295                 300
Glu Leu Arg Gln Pro Pro Val Lys Arg Leu Arg Leu Arg Gly Asp
            305                 310                 315
Trp Ser Asp Thr Gly Pro Arg Ala Arg Pro Glu Ser Glu Arg Glu
            320                 325                 330
Arg Asp Gly Glu Gln Ser Pro Asn Val Ser Leu Met Gln Arg Met
            335                 340                 345
Ser Asp Met Leu Ser Arg Trp Phe Glu Glu Ala Ser Glu Val Ala
            350                 355                 360
Gln Ser Asn Arg Gly Arg Gly Arg Ser Arg Pro Arg Gly Gly Thr
            365                 370                 375
Ser Gln Ser Asp Ile Ser Thr Leu Pro Thr Val Pro Ser Ser Pro
            380                 385                 390
Asp Leu Glu Val Ser Glu Thr Ala Met Glu Val Asp Thr Pro Ala
            395                 400                 405
Glu Gln Phe Leu Gln Pro Ser Thr Ser Ser Thr Met Ser Ala Gln
            410                 415                 420
Ala His Ser Thr Ser Ser Pro Thr Glu Ser Pro His Ser Thr Pro
            425                 430                 435
Leu Leu Ser Ser Pro Asp Ser Glu Gln Arg Gln Ser Val Glu Ala
            440                 445                 450
Ser Gly His His Thr His His Gln Ser Asp Ser Pro Ser Ser Val
            455                 460                 465
Val Asn Lys Gln Leu Gly Ser Met Ser Leu Asp Glu Gln Gln Asp
            470                 475                 480
Asn Asn Asn Glu Lys Leu Ser Pro Lys Pro Gly Thr Gly Glu Pro
            485                 490                 495
Val Leu Ser Leu His Tyr Ser Thr Glu Gly Thr Thr Thr Ser Thr
            500                 505                 510
Ile Lys Leu Asn Phe Thr Asp Glu Trp Ser Ser Ile Ala Ser Ser
            515                 520                 525
Ser Arg Gly Ile Gly Ser His Cys Lys Ser Glu Gly Gln Glu Glu
            530                 535                 540
Ser Phe Val Pro Gln Ser Ser Val Gln Pro Pro Glu Gly Asp Ser
            545                 550                 555
Glu Thr Lys Ala Pro Glu Glu Ser Ser Glu Asp Val Thr Lys Tyr
            560                 565                 570
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Gln Glu Gly Val Ser Ala Glu Asn Pro Val Glu Asn His Ile Asn
                575                 580                 585
Ile Thr Gln Ser Asp Lys Phe Thr Ala Lys Pro Leu Asp Ser Asn
                590                 595                 600
Ser Gly Glu Arg Asn Asp Leu Asn Leu Asp Arg Ser Cys Gly Val
                605                 610                 615
Pro Glu Glu Ser Ala Ser Ser Glu Lys Ala Lys Glu Pro Glu Thr
                620                 625                 630
Ser Asp Gln Thr Ser Thr Glu Ser Ala Thr Asn Glu Asn Asn Thr
                635                 640                 645
Asn Pro Glu Pro Gln Phe Gln Thr Glu Ala Thr Gly Pro Ser Ala
                650                 655                 660
His Glu Glu Thr Ser Thr Arg Asp Ser Ala Leu Gln Asp Thr Asp
                665                 670                 675
Asp Ser Asp Asp Asp Pro Val Leu Ile Pro Gly Ala Arg Tyr Arg
                680                 685                 690
Ala Gly Pro Gly Asp Arg Arg Ser Ala Val Ala Arg Ile Gln Glu
                695                 700                 705
Phe Phe Arg Arg Arg Lys Glu Arg Lys Glu Met Glu Glu Leu Asp
                710                 715                 720
Thr Leu Asn Ile Arg Arg Pro Leu Val Lys Met Val Tyr Lys Gly
                725                 730                 735
His Arg Asn Ser Arg Thr Met Ile Lys Glu Ala Asn Phe Trp Gly
                740                 745                 750
Ala Asn Phe Val Met Ser Gly Ser Asp Cys Gly His Ile Phe Ile
                755                 760                 765
Trp Asp Arg His Thr Ala Glu His Leu Met Leu Leu Glu Ala Asp
                770                 775                 780
Asn His Val Val Asn Cys Leu Gln Pro His Pro Phe Asp Pro Ile
                785                 790                 795
Leu Ala Ser Ser Gly Ile Asp Tyr Asp Ile Lys Ile Trp Ser Pro
                800                 805                 810
Leu Glu Glu Ser Arg Ile Phe Asn Arg Lys Leu Ala Asp Glu Val
                815                 820                 825
Ile Thr Arg Asn Glu Leu Met Leu Glu Glu Thr Arg Asn Thr Ile
                830                 835                 840
Thr Val Pro Ala Ser Phe Met Leu Arg Met Leu Ala Ser Leu Asn
                845                 850                 855
His Ile Arg Ala Asp Arg Leu Glu Gly Asp Arg Ser Glu Gly Ser
                860                 865                 870
Gly Gln Glu Asn Glu Asn Glu Asp Glu Glu
                875                 880
<210> 54
<211> 855
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5992432CD1

<400> 54
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Val Phe Glu Glu Glu Asp Leu Pro Tyr Glu Glu Glu Ile Met Arg
                 20                  25                  30
Asn Gln Phe Ser Val Lys Cys Trp Leu Arg Tyr Ile Glu Phe Lys
                 35                  40                  45
Gln Gly Ala Pro Lys Pro Arg Leu Asn Gln Leu Tyr Glu Arg Ala
                 50                  55                  60
Leu Lys Leu Leu Pro Cys Ser Tyr Lys Leu Trp Tyr Arg Tyr Leu
                 65                  70                  75
Lys Ala Arg Arg Ala Gln Val Lys His Arg Cys Val Thr Asp Pro
```

```
                80                  85                  90
Ala Tyr Glu Asp Val Asn Asn Cys His Glu Arg Ala Phe Val Phe
                95                 100                 105
Met His Lys Met Pro Arg Leu Trp Leu Asp Tyr Cys Gln Phe Leu
               110                 115                 120
Met Asp Gln Gly Arg Val Thr His Thr Arg Arg Thr Phe Asp Arg
               125                 130                 135
Ala Leu Arg Ala Leu Pro Ile Thr Gln His Ser Arg Ile Trp Pro
               140                 145                 150
Leu Tyr Leu Arg Phe Leu Arg Ser His Pro Leu Pro Glu Thr Ala
               155                 160                 165
Val Arg Gly Tyr Arg Arg Phe Leu Lys Leu Ser Pro Glu Ser Ala
               170                 175                 180
Glu Glu Tyr Ile Glu Tyr Leu Lys Ser Ser Asp Arg Leu Asp Glu
               185                 190                 195
Ala Ala Gln Arg Leu Ala Thr Val Val Asn Asp Glu Arg Phe Val
               200                 205                 210
Ser Lys Ala Gly Lys Ser Asn Tyr Gln Leu Trp His Glu Leu Cys
               215                 220                 225
Asp Leu Ile Ser Gln Asn Pro Asp Lys Val Gln Ser Leu Asn Val
               230                 235                 240
Asp Ala Ile Ile Arg Gly Gly Leu Thr Arg Phe Thr Asp Gln Leu
               245                 250                 255
Gly Lys Leu Trp Cys Ser Leu Ala Asp Tyr Tyr Ile Arg Ser Gly
               260                 265                 270
His Phe Glu Lys Ala Arg Asp Val Tyr Glu Glu Ala Ile Arg Thr
               275                 280                 285
Val Met Thr Val Arg Asp Phe Thr Gln Val Phe Asp Ser Tyr Ala
               290                 295                 300
Gln Phe Glu Glu Ser Met Ile Ala Ala Lys Met Glu Thr Ala Ser
               305                 310                 315
Glu Leu Gly Arg Glu Glu Glu Asp Asp Val Asp Leu Glu Leu Arg
               320                 325                 330
Leu Ala Arg Phe Glu Gln Leu Ile Ser Arg Arg Pro Leu Leu Leu
               335                 340                 345
Asn Ser Val Leu Leu Arg Gln Asn Pro His His Val His Glu Trp
               350                 355                 360
His Lys Arg Val Ala Leu His Gln Gly Arg Pro Arg Glu Ile Ile
               365                 370                 375
Asn Thr Tyr Thr Glu Ala Val Gln Thr Val Asp Pro Phe Lys Ala
               380                 385                 390
Thr Gly Lys Pro His Thr Leu Trp Val Ala Phe Ala Lys Phe Tyr
               395                 400                 405
Glu Asp Asn Gly Gln Leu Asp Asp Ala Arg Val Ile Leu Glu Lys
               410                 415                 420
Ala Thr Lys Val Asn Phe Lys Gln Val Asp Asp Leu Ala Ser Val
               425                 430                 435
Trp Cys Gln Cys Gly Glu Leu Glu Leu Arg His Glu Asn Tyr Asp
               440                 445                 450
Glu Ala Leu Arg Leu Leu Arg Lys Ala Thr Ala Leu Pro Ala Arg
               455                 460                 465
Arg Ala Glu Tyr Phe Asp Gly Ser Glu Pro Val Gln Asn Arg Val
               470                 475                 480
Tyr Lys Ser Leu Lys Val Trp Ser Met Leu Ala Asp Leu Glu Glu
               485                 490                 495
Ser Leu Gly Thr Phe Gln Ser Thr Lys Ala Val Tyr Asp Arg Ile
               500                 505                 510
Leu Asp Leu Arg Ile Ala Thr Pro Gln Ile Val Ile Asn Tyr Ala
               515                 520                 525
Met Phe Leu Glu Glu His Lys Tyr Phe Glu Glu Ser Phe Lys Ala
               530                 535                 540
Tyr Glu Arg Gly Ile Ser Leu Phe Lys Trp Pro Asn Val Ser Asp
               545                 550                 555
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Ile Trp Ser Thr Tyr Leu Thr Lys Phe Ile Ala Arg Tyr Gly Gly
                560                 565                 570
Arg Lys Leu Glu Arg Ala Arg Asp Leu Phe Glu Gln Ala Leu Asp
                575                 580                 585
Gly Cys Pro Pro Lys Tyr Ala Lys Thr Leu Tyr Leu Leu Tyr Ala
                590                 595                 600
Gln Leu Glu Glu Glu Trp Gly Leu Ala Arg His Ala Met Ala Val
                605                 610                 615
Tyr Glu Arg Ala Thr Arg Ala Val Glu Pro Ala Gln Gln Tyr Asp
                620                 625                 630
Met Phe Asn Ile Tyr Ile Lys Arg Ala Ala Glu Ile Tyr Gly Val
                635                 640                 645
Thr His Thr Arg Gly Ile Tyr Gln Lys Ala Ile Glu Val Leu Ser
                650                 655                 660
Asp Glu His Ala Arg Glu Met Cys Leu Arg Phe Ala Asp Met Glu
                665                 670                 675
Cys Lys Leu Gly Glu Ile Asp Arg Ala Arg Ala Ile Tyr Ser Phe
                680                 685                 690
Cys Ser Gln Ile Cys Asp Pro Arg Thr Thr Gly Ala Phe Trp Gln
                695                 700                 705
Thr Trp Lys Asp Phe Glu Val Arg His Gly Asn Glu Asp Thr Ile
                710                 715                 720
Lys Glu Met Leu Arg Ile Arg Arg Ser Val Gln Ala Thr Tyr Asn
                725                 730                 735
Thr Gln Val Asn Phe Met Ala Ser Gln Met Leu Lys Val Ser Gly
                740                 745                 750
Ser Ala Thr Gly Thr Val Ser Asp Leu Ala Pro Gly Gln Ser Gly
                755                 760                 765
Met Asp Asp Met Lys Leu Leu Glu Gln Arg Ala Glu Gln Leu Ala
                770                 775                 780
Ala Glu Ala Glu Arg Asp Gln Pro Leu Arg Ala Gln Ser Lys Ile
                785                 790                 795
Leu Phe Val Arg Ser Asp Ala Ser Arg Glu Glu Leu Ala Glu Leu
                800                 805                 810
Ala Gln Gln Val Asn Pro Glu Glu Ile Gln Leu Gly Glu Asp Glu
                815                 820                 825
Asp Glu Asp Glu Met Asp Leu Glu Pro Asn Glu Val Arg Leu Glu
                830                 835                 840
Gln Gln Ser Val Pro Ala Ala Val Phe Gly Ser Leu Lys Glu Asp
                845                 850                 855
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<210> 55
<211> 1598
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 116462CB1

<400> 55

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ttagaatggt aacttgcccc ttgctcacct catgcttggc tttgggaacc ggtgagaaac 120
tgcaatccat tggcggtagg aaccacgatt cccggcattc ccagtgctcc gagtccttcg 180
ggcttccttt tccgggtctc gaggctgctg aaaccgaaac cgctgtgctg tgggcgcagc 240
gccgagattg attcaccttc acctgtgctg cactccagct gacccaagta ggaagccaga 300
cgagctgtaa aacatgaacg gaagagtgga ttatttggtc actgaggaag agatcaatct 360
taccagaggg ccctcagggc tgggcttcaa catcgtcggt gggacagatc agcagtatgt 420
ctccaacgac agtggcatct acgtcagccg catcaaagaa aatggggctg cggccctgga 480
tgggcggctc caggagggtg ataagatcct ttcggtaaat ggccaagacc taaagaacct 540
gctgcaccag gatgctgtag acctctttcg taatgcaggc tatgctgtgt ctctgagagt 600
gcagcacagg ttacaggtgc agaatggacc tataggacat cgaggtgaag gggacccaag 660
tggtattccc atatttatgg tgctggtgcc agtgtttgcc ctcaccatgg tagcagcctg 720
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ggctttcatg agataccggc aacaactttg aaaaacttgc tctctttcaa tactcccaat 780
gaagatacat ttcactcacc ctccaccccc gctattctgc catgtctttc cctctctctg 840
catagccaga tttgaagtga ctgataccca ccccaaacct tgctgttcac agtctccaat 900
tcttcatatt ctaatgggaa agtaaaggta ttgtttgaag gaaaactgaa gaaaagactt 960
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tggcatgcca taaaggccag ctatgtgata ttagaggaag aaaggatttt tctttttaat 1140
gatcttcctt gggaaattat tgtggccttt atttaatttc taactacgta cctgggtgcc 1200
tatatcgaca aagagtgaga agagcatttt tacttttta aaaaagcaaa tacatatata 1260
cacatacgta tgcaaatatt atagtataat agtgatccct atggagaatt aaaggtgaga 1320
aagctacttt gtggtgtcta ggtttctgat aaaagggatg atcttaactg aagaatttaa 1380
agagatactt aaacagagca aatgtagtag gaacaaggga gtgagcctta taagaggacg 1440
ttcagtctca tttattaaaa taataactga gactgggaga ggtggctcat gcctgtaaat 1500
cccagcactt tggtagcctg aagtgggaga ttgcttgagt ccaggagacc agcctgggca 1560
acatagcaaa acctcatctc tatttaaaaa aaaaaaaa 1598

<210> 56
<211> 1432
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1210462CB1

<400> 56
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ctgacccagc tgaaagcaaa atcagagggg aagcttgcaa aacagatttg caaagttgtg 180
ttggatcatt ttgaaaaaca gtattccaaa gaactcggag atgcctggaa tacagtaagg 240
gagatactaa catctccatc atgctggcaa tatgctgtcc tgcttaaccg attcaattat 300
ccttttgaac tggaaaagga tttacatttg aagggctatc acacactctc tcagggatct 360
ttacccaact atcctaaatc agtgaagtgt taccttagca gaactccggg ccgaatccct 420
tcagaaagac accaaattgg aaacctgaaa aaatattatc tcctaaatgc tgcttctctt 480
ctcccagtgt tggctctgga attaagggat ggggagaagg ttctggatct ctgtgctgct 540
cctggaggga aatcaatagc tctgctgcag tgtgcttgtc caggttatct tcattgtaat 600
gaatatgata gtctgagatt gaggtggcta aggcagacgt tggaatcttt catcccacag 660
cctttgataa atgtaattaa agtgtctgaa ttggatggca gaaaaatggg agatgcacag 720
cctgaaatgt ttgacaaggt gttagtggat gctccgtgtt caaatgatcg aagctggttg 780
ttttcttctg actctcagaa ggcatcctgt aggataagtc aaaggaggaa tttgcctctt 840
ctacagatag agctgttaag gtctgcaatt aaggccttac gtcctggagg gatacttgta 900
tactctacat gcacgctttc caaggcagaa aatcaagatg tgatcagtga aattttaaac 960
tcccacggta acatcatgcc tatggacatt aaaggaatag caaggacttg ctcccacgac 1020
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aatatatctg taacaatgat ttaaggtggt gcagatggtg tttgttctat attataaatc 1380
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<210> 57
<211> 2317
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1305252CB1

<400> 57
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agaagactat ctggaaatga ttgagcagct tcctatggat ctgcgggacc gcttcacgga 180
aatgcgcgag atggacctgc aggtgcagaa tgcaatggat caactagaac aaagagtcag 240
tgaattcttt atgaatgcaa agaaaaataa acctgagtgg agggaagagc aaatggcatc 300
catcaaaaaa gactactata aagctttgga agatgcagat gagaaggttc agttggcaaa 360
ccagatatat gacttggtag atcgacactt gagaaagctg gatcaggaac tggctaagtt 420
taaaatggag ctggaagctg ataatgctgg aattacagaa atattagaga ggcgatcttt 480
ggaattagac actccttcac agccagtgaa caatcaccat gctcattcac atactccagt 540
ggaaaaaagg aaatataatc caacttctca ccatacgaca acagatcata ttcctgaaaa 600
gaaatttaaa tctgaagctc ttctatccac ccttacgtca gatgcctcta aggaaaatac 660
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agaattttca atggccaggg aaacagttgg ctattcatca tcttcggcac ttatgacaac 960
attaacacag aatgccagtt catcagcagc cgactcacgg agtggtcgaa agagcaaaaa 1020
caacaacaag tcttcaagcc agcagtcatc atcttcctcc tcctcttctt ccttatcatc 1080
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atctgattca aatagtcagg ttgattggac ttacgaccca aatgaacctc gatactgcat 1200
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ttctgctgca tgtactgtac tccagagctg ttatgtaaca ctgtatataa atggttgcaa 1800
aaaaaaaaaa aaagtcagtg cttctaaaaa gaatttaaga taatggtttt taaaatgcct 1860
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<220>
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<212> DNA
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<212> DNA
<213> Homo sapiens

<220>
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<211> 766
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 3215187CB1

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<211> 2503
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 3500375CB1

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<210> 68
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<212> DNA .
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5080410CB1

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<211> 937
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 5218248CB1

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<210> 70
<211> 823
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 058336CB1

<400> 70

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<211> 1033
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1511488CB1

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<210> 72
<211> 1622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1638819CB1

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aa 1622

<210> 73
<211> 2449
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 1655123CB1

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<210> 74
<211> 1689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2553926CB1

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<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 017900CB1

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<213> Homo sapiens

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<211> 1370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1398816CB1

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<211> 1541
<212> DNA
<213> Homo sapiens

<220>
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<222> 2058, 2067
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<211> 1889
<212> DNA
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<222> 1809, 1848, 1853, 1880
<223> a, t, c, g, or other

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